

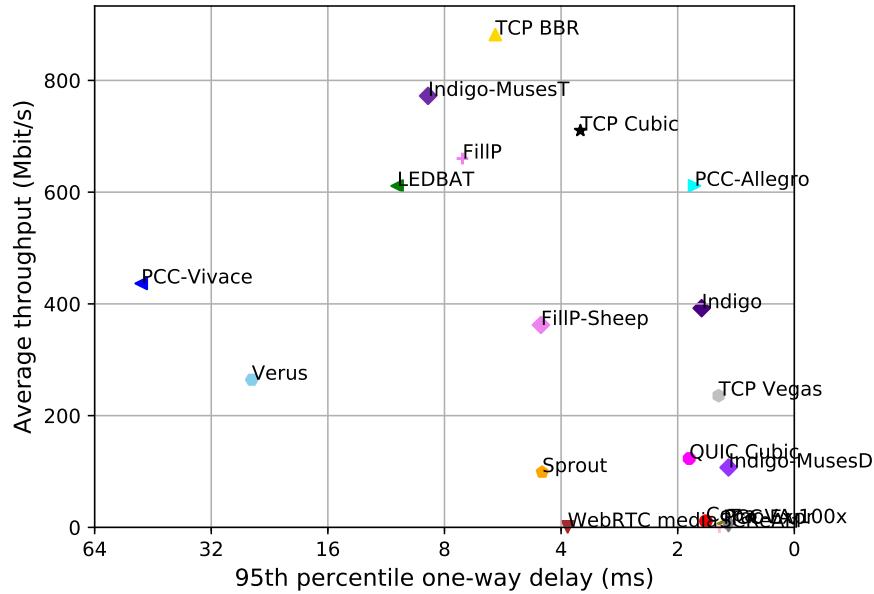
Pantheon Report

Generated at 2019-01-03 03:10:38 (UTC).
Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*remote*).
Repeated the test of 19 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

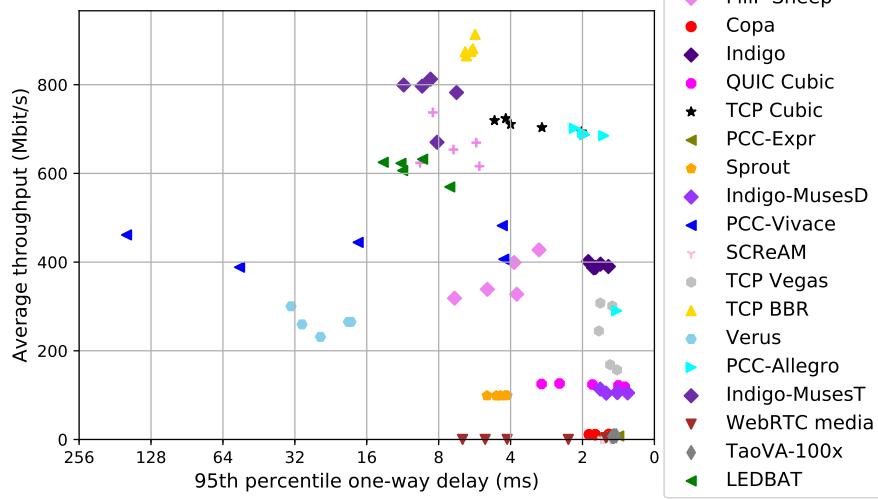
```
System info:  
Linux 4.15.0-1029-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68  
third_party/fillp @ d6da1459332fce6963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 65ac1b19bbfed0c6349ae986009b4fa8643c40a  
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
M src/ScreamClient  
M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



4

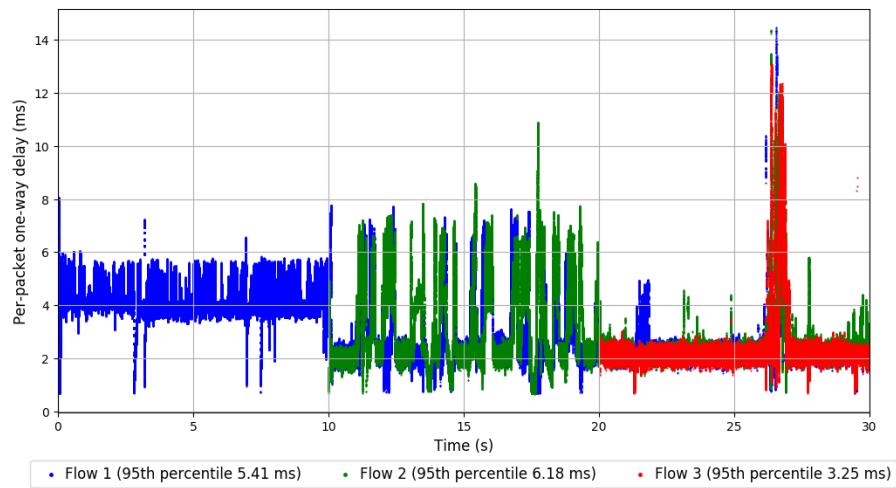
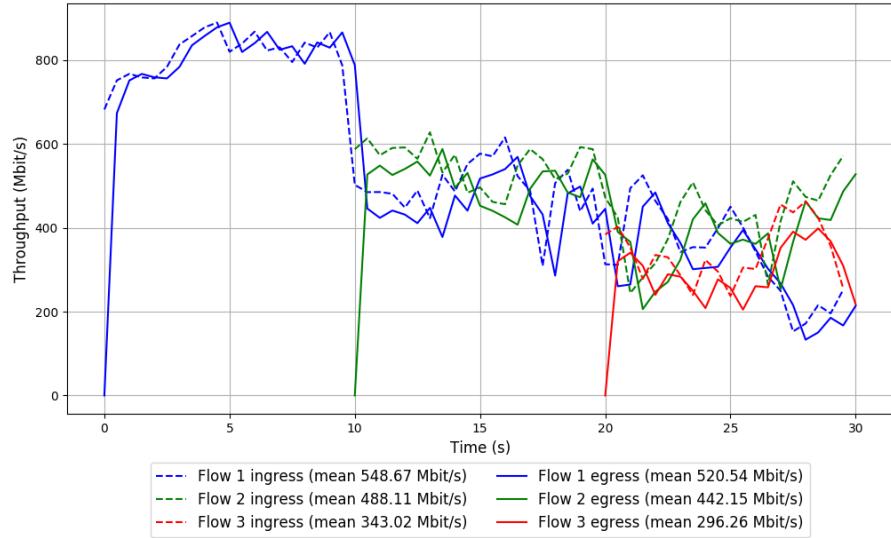
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	493.12	441.49	289.39	5.73	6.33	3.40	5.18	8.43	13.28
Copa	5	6.78	5.93	4.17	1.48	1.64	1.41	51.73	51.98	56.09
TCP Cubic	5	390.43	338.76	283.02	3.90	2.12	2.31	0.10	0.10	0.15
FillP	5	426.14	265.55	172.89	8.27	3.73	5.53	9.90	11.75	13.81
FillP-Sheep	5	315.37	58.81	23.82	4.70	2.05	2.25	2.76	2.50	3.67
Indigo	5	204.96	190.88	187.58	1.37	1.60	2.02	0.09	0.12	0.06
Indigo-MusesD	5	52.01	53.51	59.61	1.08	1.11	1.38	0.08	0.06	0.08
Indigo-MusesT	5	605.36	180.58	159.75	9.10	2.15	2.31	1.02	1.88	4.10
LEDBAT	5	339.87	264.55	303.94	11.39	8.03	6.68	0.18	0.27	0.26
PCC-Allegro	5	450.37	144.42	196.70	1.71	1.38	1.70	0.13	0.13	0.16
PCC-Expr	5	0.75	6.45	6.97	1.22	1.23	1.16	85.71	32.55	29.76
QUIC Cubic	5	66.24	61.73	48.70	1.74	1.65	3.97	0.07	0.09	0.11
SCReAM	5	0.20	0.20	0.21	1.28	1.28	1.29	0.11	0.09	0.18
Sprout	5	49.68	49.50	49.50	4.46	4.50	4.46	0.41	0.53	0.27
TaoVA-100x	5	0.00	6.62	10.63	1.16	1.15	1.08	95.92	65.17	77.05
TCP Vegas	5	96.90	134.12	148.81	1.42	1.26	1.24	0.05	0.04	0.08
Verus	5	129.44	133.57	140.12	18.76	30.68	30.06	3.80	4.66	5.68
PCC-Vivace	5	225.68	234.59	166.23	7.60	77.74	83.76	0.21	1.65	4.35
WebRTC media	5	0.47	0.32	0.15	3.17	4.19	4.37	0.01	0.01	0.33

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-03 00:26:56
End at: 2019-01-03 00:27:26
Local clock offset: 0.512 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 913.65 Mbit/s
95th percentile per-packet one-way delay: 5.630 ms
Loss rate: 7.52%
-- Flow 1:
Average throughput: 520.54 Mbit/s
95th percentile per-packet one-way delay: 5.411 ms
Loss rate: 5.12%
-- Flow 2:
Average throughput: 442.15 Mbit/s
95th percentile per-packet one-way delay: 6.176 ms
Loss rate: 9.41%
-- Flow 3:
Average throughput: 296.26 Mbit/s
95th percentile per-packet one-way delay: 3.248 ms
Loss rate: 13.64%
```

Run 1: Report of TCP BBR — Data Link

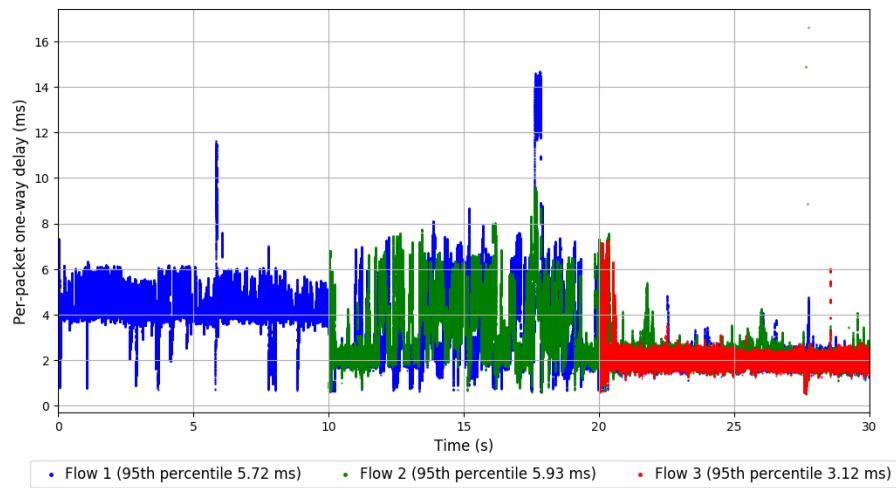
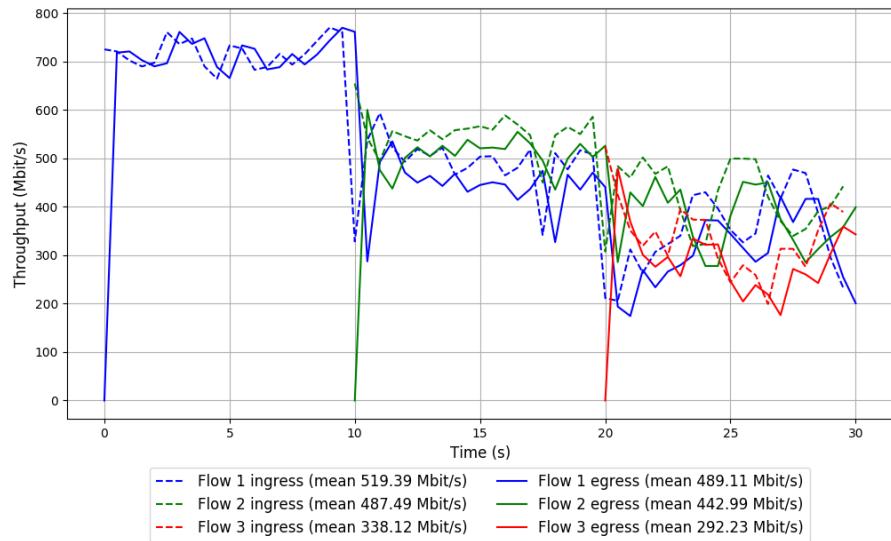


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-03 00:54:05
End at: 2019-01-03 00:54:35
Local clock offset: 0.401 ms
Remote clock offset: 2.859 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 881.31 Mbit/s
95th percentile per-packet one-way delay: 5.755 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 489.11 Mbit/s
95th percentile per-packet one-way delay: 5.725 ms
Loss rate: 5.83%
-- Flow 2:
Average throughput: 442.99 Mbit/s
95th percentile per-packet one-way delay: 5.932 ms
Loss rate: 9.12%
-- Flow 3:
Average throughput: 292.23 Mbit/s
95th percentile per-packet one-way delay: 3.116 ms
Loss rate: 13.57%
```

Run 2: Report of TCP BBR — Data Link

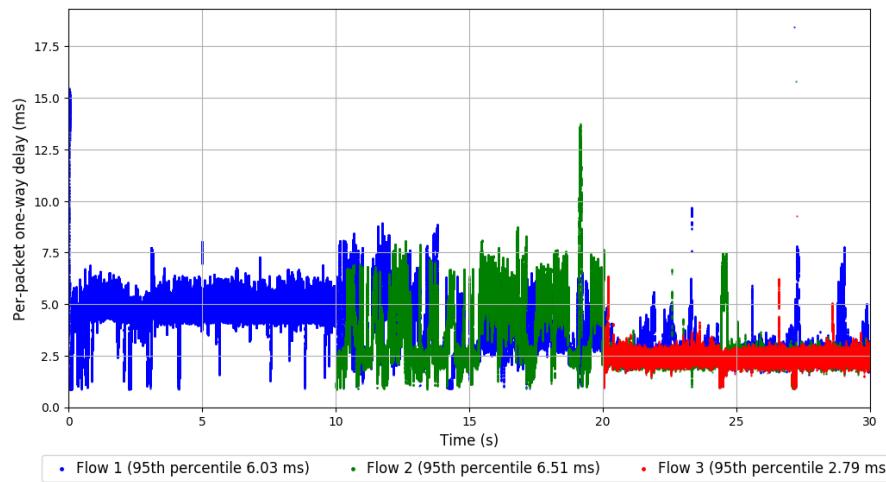
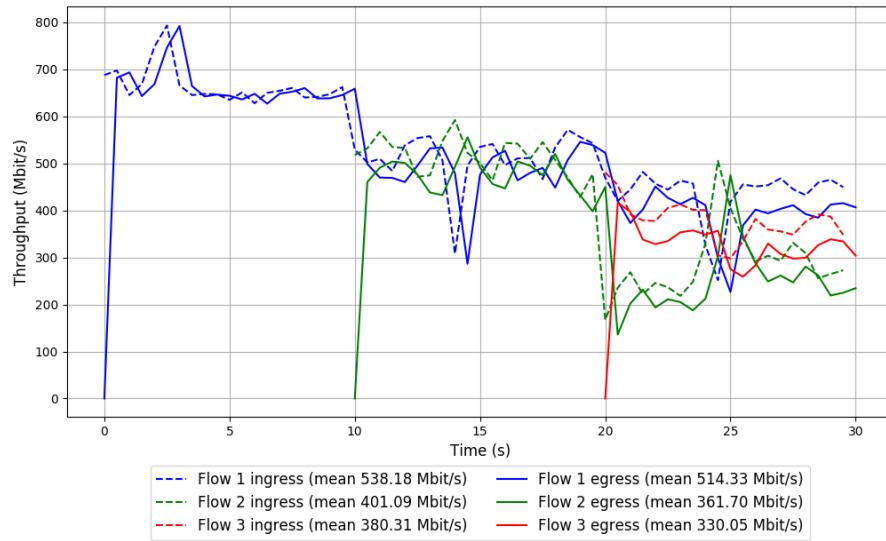


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-03 01:21:10
End at: 2019-01-03 01:21:40
Local clock offset: -3.412 ms
Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 865.04 Mbit/s
95th percentile per-packet one-way delay: 6.122 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 514.33 Mbit/s
95th percentile per-packet one-way delay: 6.032 ms
Loss rate: 4.43%
-- Flow 2:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 6.506 ms
Loss rate: 9.81%
-- Flow 3:
Average throughput: 330.05 Mbit/s
95th percentile per-packet one-way delay: 2.795 ms
Loss rate: 13.22%
```

Run 3: Report of TCP BBR — Data Link

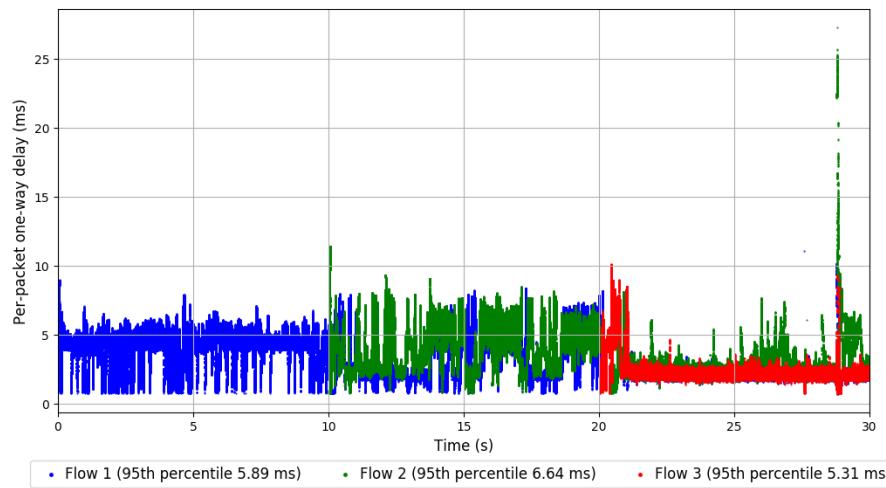
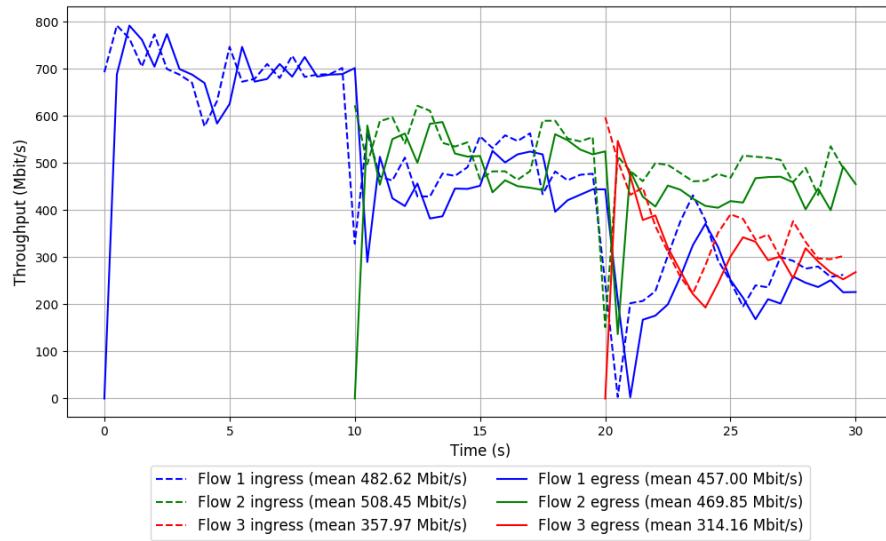


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-03 01:48:18
End at: 2019-01-03 01:48:48
Local clock offset: -0.093 ms
Remote clock offset: -1.481 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 874.33 Mbit/s
95th percentile per-packet one-way delay: 6.198 ms
Loss rate: 7.00%
-- Flow 1:
Average throughput: 457.00 Mbit/s
95th percentile per-packet one-way delay: 5.886 ms
Loss rate: 5.30%
-- Flow 2:
Average throughput: 469.85 Mbit/s
95th percentile per-packet one-way delay: 6.638 ms
Loss rate: 7.58%
-- Flow 3:
Average throughput: 314.16 Mbit/s
95th percentile per-packet one-way delay: 5.309 ms
Loss rate: 12.24%
```

Run 4: Report of TCP BBR — Data Link

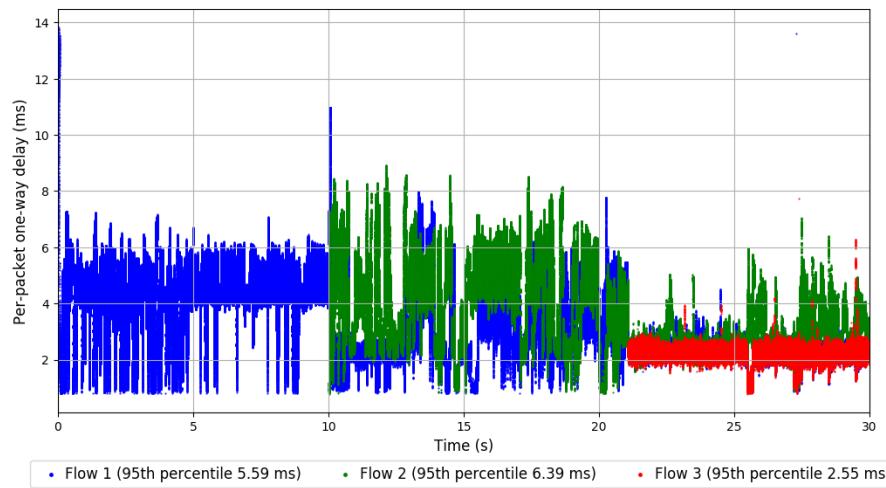
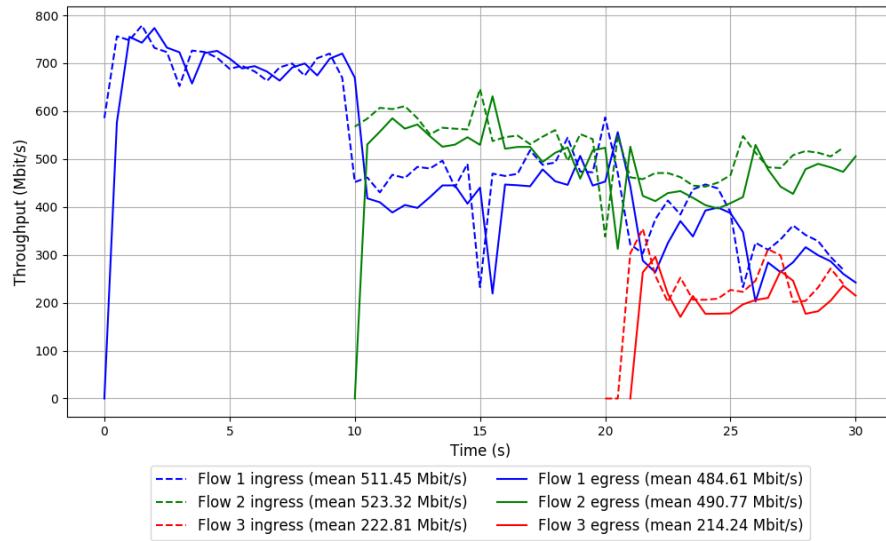


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-03 02:15:19
End at: 2019-01-03 02:15:49
Local clock offset: 0.039 ms
Remote clock offset: -0.781 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 875.43 Mbit/s
95th percentile per-packet one-way delay: 5.862 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 484.61 Mbit/s
95th percentile per-packet one-way delay: 5.591 ms
Loss rate: 5.24%
-- Flow 2:
Average throughput: 490.77 Mbit/s
95th percentile per-packet one-way delay: 6.386 ms
Loss rate: 6.22%
-- Flow 3:
Average throughput: 214.24 Mbit/s
95th percentile per-packet one-way delay: 2.547 ms
Loss rate: 13.75%
```

Run 5: Report of TCP BBR — Data Link

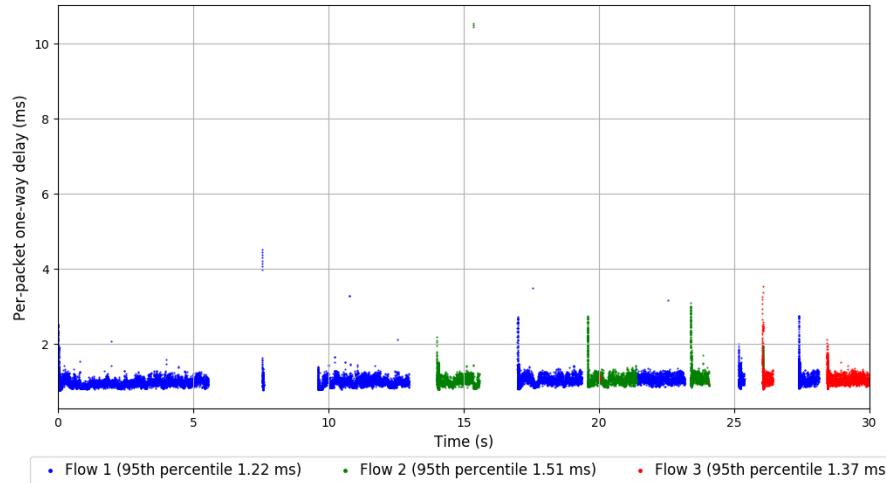
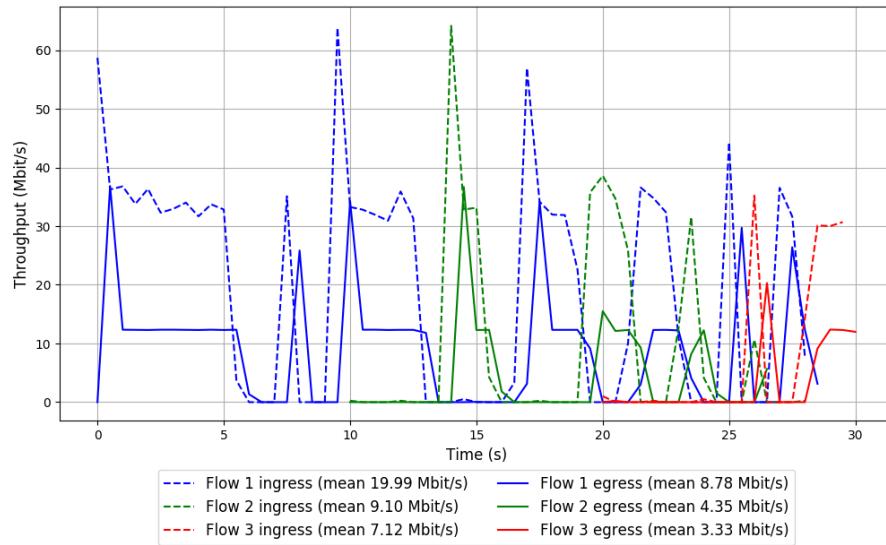


Run 1: Statistics of Copa

```
Start at: 2019-01-03 00:18:13
End at: 2019-01-03 00:18:43
Local clock offset: 0.373 ms
Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 1.266 ms
Loss rate: 56.11%
-- Flow 1:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 56.06%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 1.506 ms
Loss rate: 57.48%
-- Flow 3:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 1.367 ms
Loss rate: 53.30%
```

Run 1: Report of Copa — Data Link

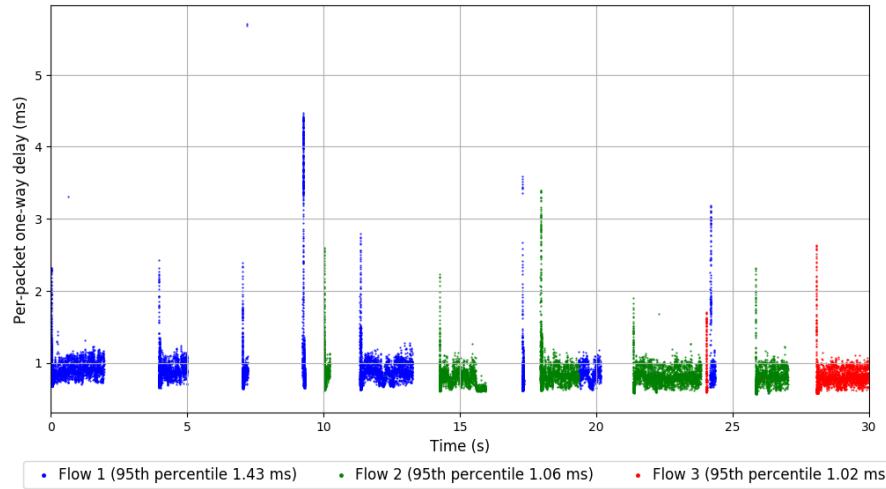
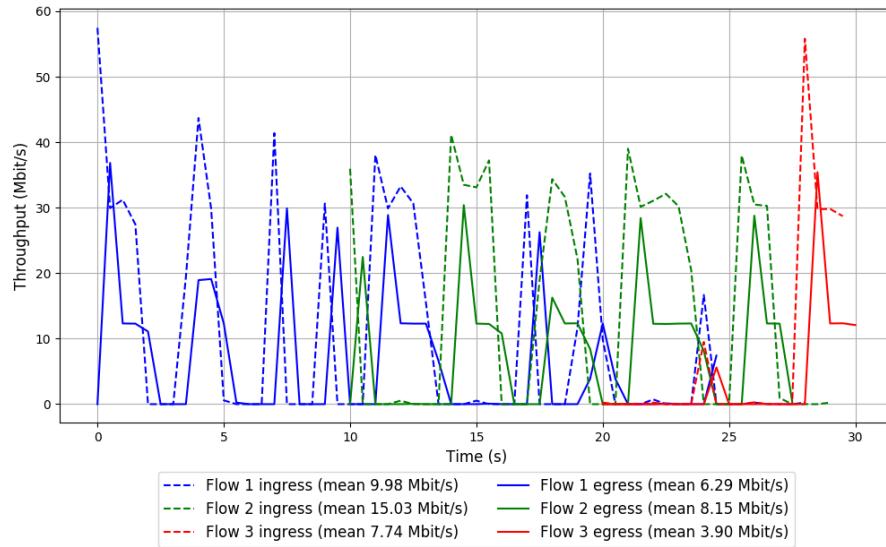


Run 2: Statistics of Copa

```
Start at: 2019-01-03 00:45:07
End at: 2019-01-03 00:45:37
Local clock offset: 0.364 ms
Remote clock offset: 1.495 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 48.82%
-- Flow 1:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 1.430 ms
Loss rate: 45.89%
-- Flow 2:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 51.51%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 1.019 ms
Loss rate: 49.60%
```

Run 2: Report of Copa — Data Link

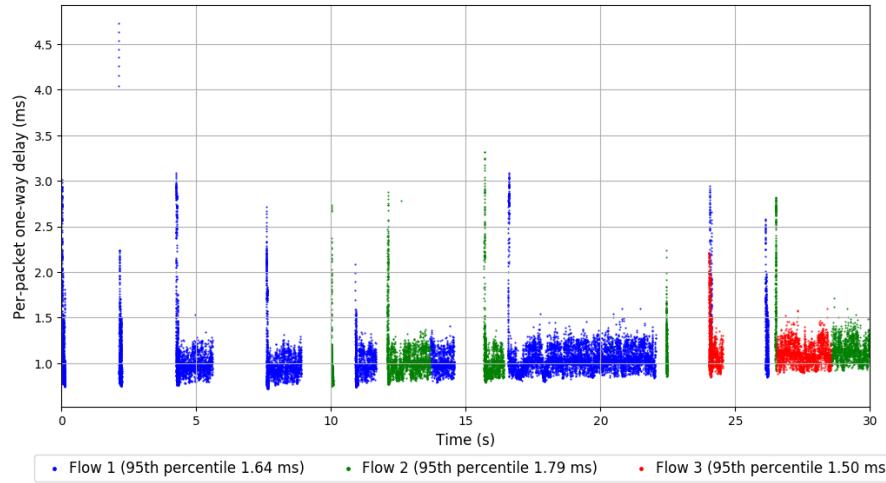
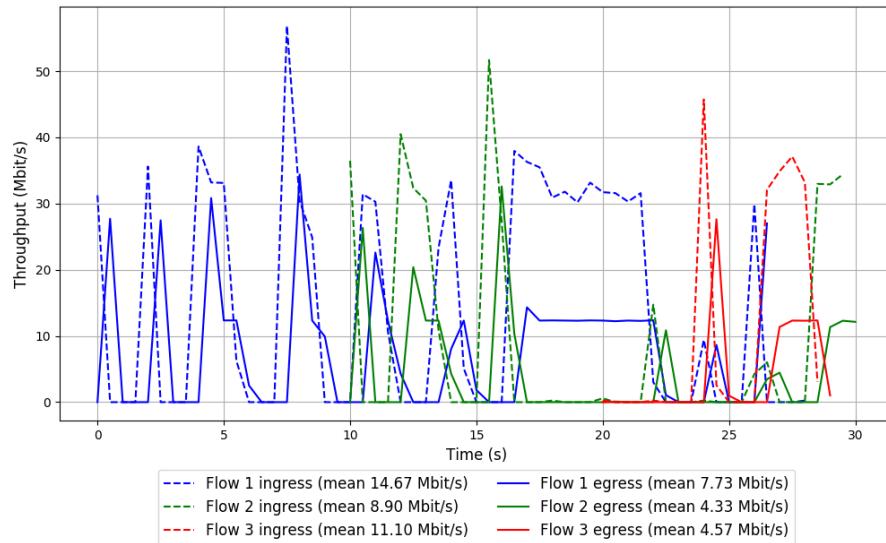


Run 3: Statistics of Copa

```
Start at: 2019-01-03 01:12:15
End at: 2019-01-03 01:12:45
Local clock offset: -2.91 ms
Remote clock offset: 4.017 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 1.646 ms
Loss rate: 52.18%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 1.638 ms
Loss rate: 51.03%
-- Flow 2:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 1.792 ms
Loss rate: 51.33%
-- Flow 3:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 1.501 ms
Loss rate: 58.78%
```

Run 3: Report of Copa — Data Link

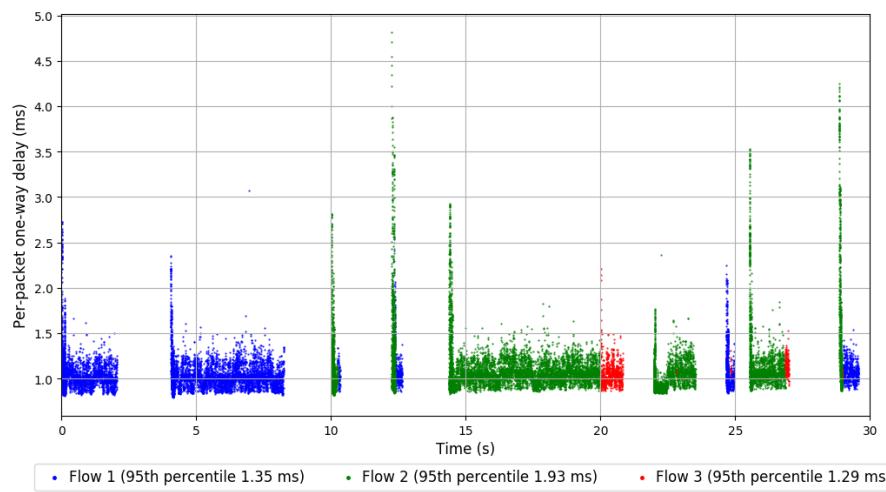
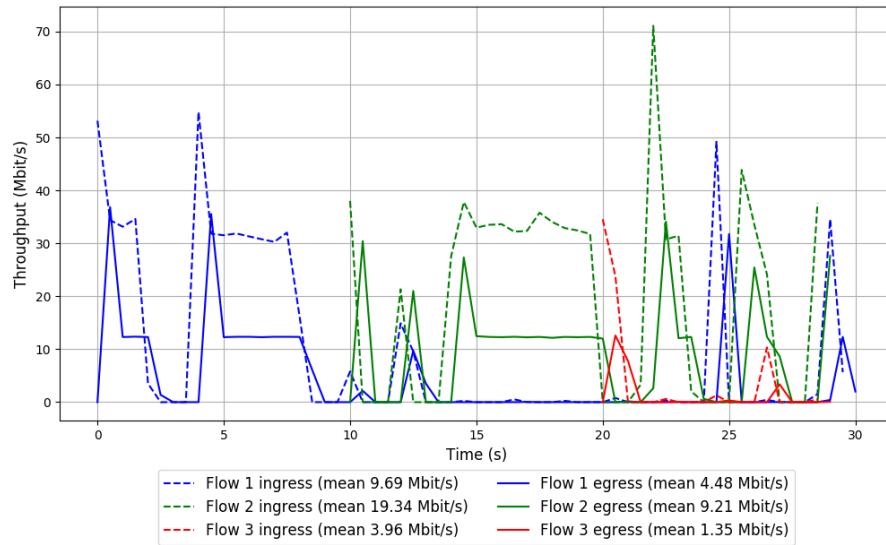


Run 4: Statistics of Copa

```
Start at: 2019-01-03 01:39:30
End at: 2019-01-03 01:40:00
Local clock offset: -0.531 ms
Remote clock offset: -1.327 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 1.648 ms
Loss rate: 53.63%
-- Flow 1:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 1.355 ms
Loss rate: 53.73%
-- Flow 2:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 1.933 ms
Loss rate: 52.36%
-- Flow 3:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 65.95%
```

Run 4: Report of Copa — Data Link

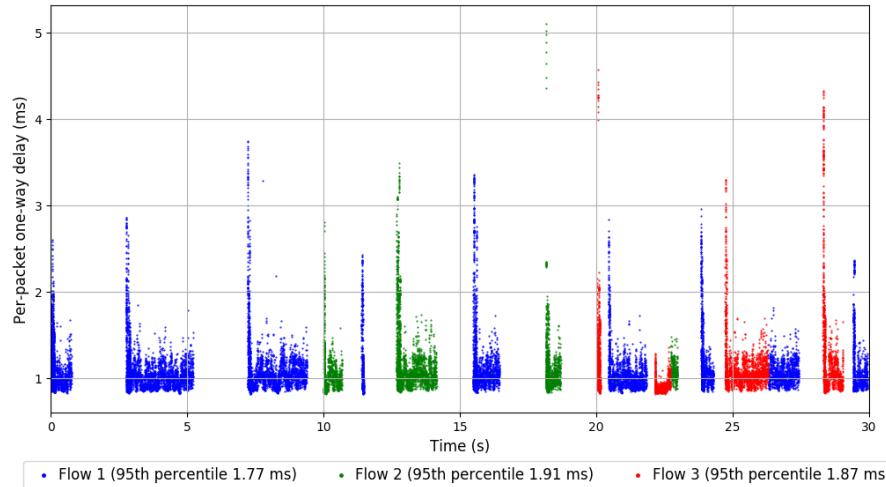
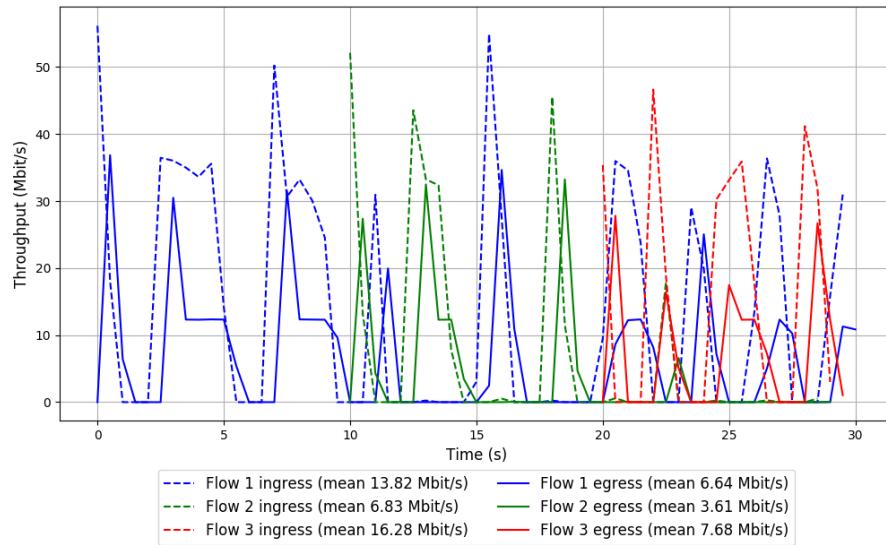


Run 5: Statistics of Copa

```
Start at: 2019-01-03 02:06:30
End at: 2019-01-03 02:07:00
Local clock offset: 0.028 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 51.24%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 1.771 ms
Loss rate: 51.94%
-- Flow 2:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 1.912 ms
Loss rate: 47.21%
-- Flow 3:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 1.870 ms
Loss rate: 52.80%
```

Run 5: Report of Copa — Data Link

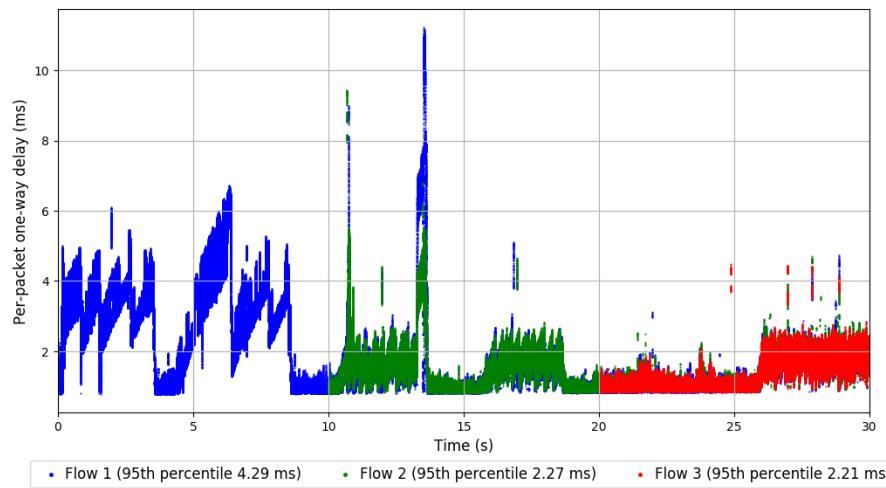
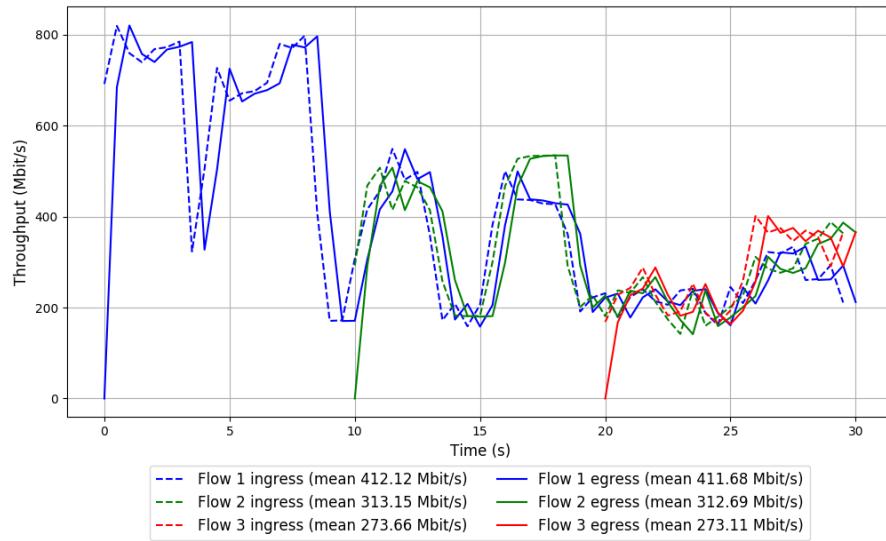


```
Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 00:15:09
End at: 2019-01-03 00:15:39
Local clock offset: 0.211 ms
Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.73 Mbit/s
95th percentile per-packet one-way delay: 3.998 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 411.68 Mbit/s
95th percentile per-packet one-way delay: 4.290 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 312.69 Mbit/s
95th percentile per-packet one-way delay: 2.271 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 273.11 Mbit/s
95th percentile per-packet one-way delay: 2.206 ms
Loss rate: 0.19%
```

Run 1: Report of TCP Cubic — Data Link

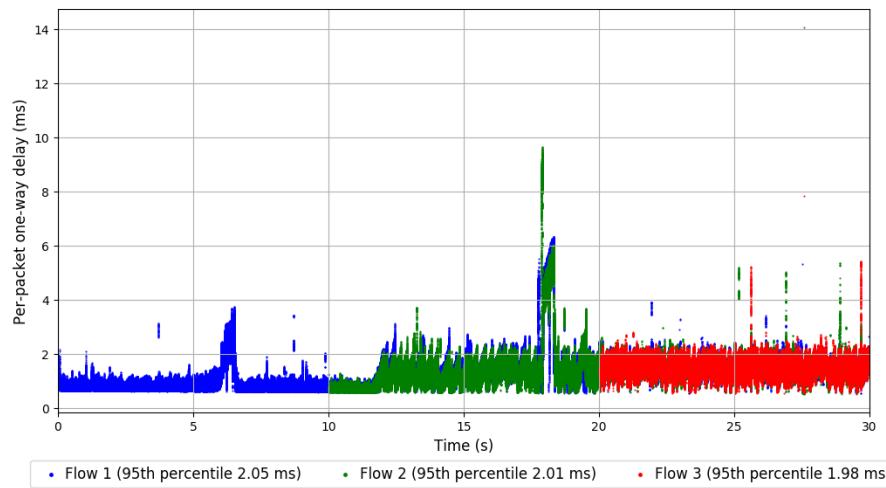
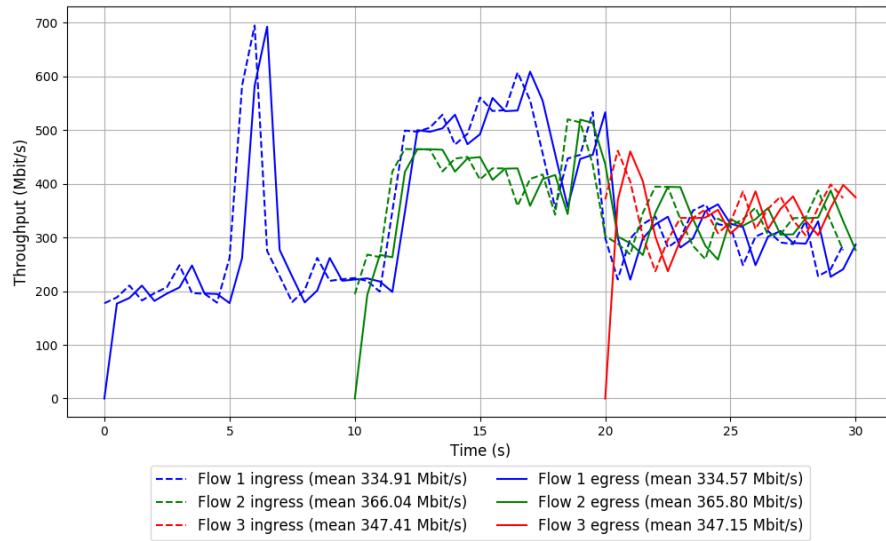


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-03 00:42:05
End at: 2019-01-03 00:42:35
Local clock offset: 0.357 ms
Remote clock offset: 0.748 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 693.68 Mbit/s
95th percentile per-packet one-way delay: 2.018 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 334.57 Mbit/s
95th percentile per-packet one-way delay: 2.054 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 365.80 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 347.15 Mbit/s
95th percentile per-packet one-way delay: 1.978 ms
Loss rate: 0.07%
```

Run 2: Report of TCP Cubic — Data Link

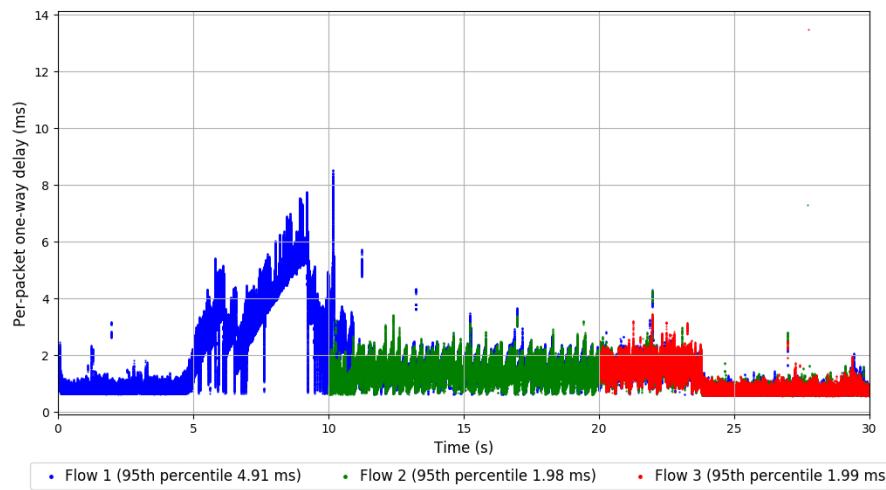
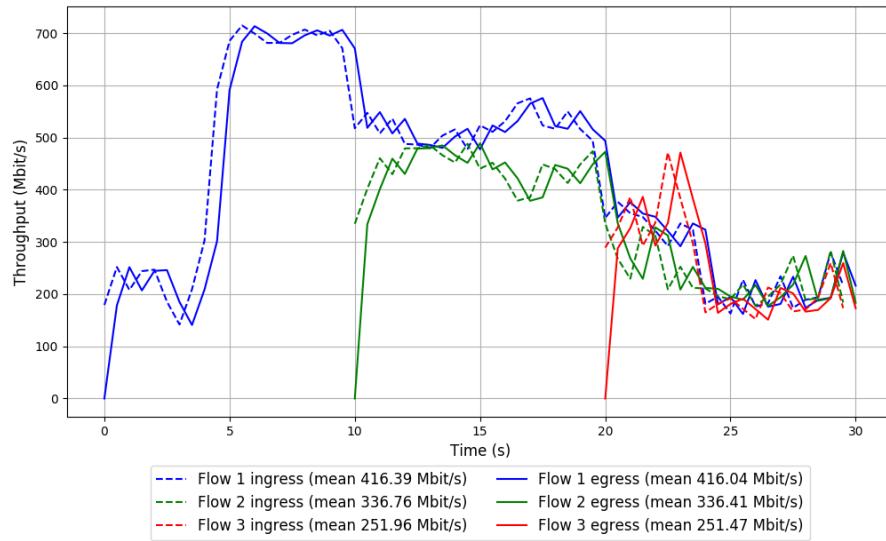


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-03 01:09:13
End at: 2019-01-03 01:09:43
Local clock offset: -2.614 ms
Remote clock offset: 3.803 ms

# Below is generated by plot.py at 2019-01-03 02:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 723.72 Mbit/s
95th percentile per-packet one-way delay: 4.192 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 416.04 Mbit/s
95th percentile per-packet one-way delay: 4.907 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 336.41 Mbit/s
95th percentile per-packet one-way delay: 1.976 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 251.47 Mbit/s
95th percentile per-packet one-way delay: 1.993 ms
Loss rate: 0.20%
```

Run 3: Report of TCP Cubic — Data Link

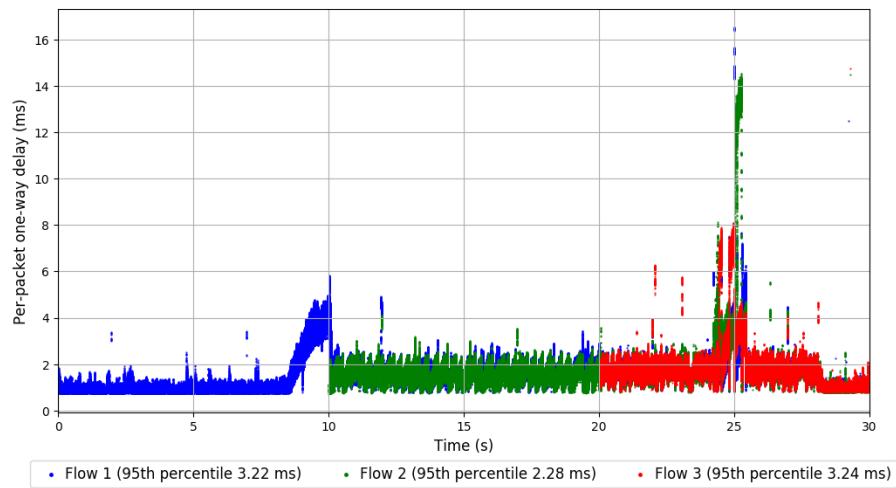
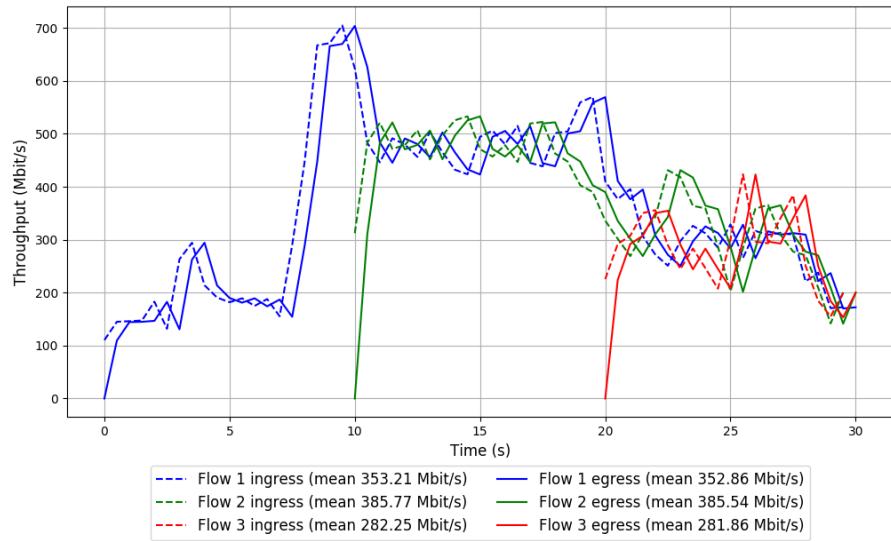


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-03 01:36:28
End at: 2019-01-03 01:36:58
Local clock offset: -0.729 ms
Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2019-01-03 02:40:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 703.44 Mbit/s
95th percentile per-packet one-way delay: 2.956 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 352.86 Mbit/s
95th percentile per-packet one-way delay: 3.220 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 385.54 Mbit/s
95th percentile per-packet one-way delay: 2.278 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 281.86 Mbit/s
95th percentile per-packet one-way delay: 3.242 ms
Loss rate: 0.14%
```

Run 4: Report of TCP Cubic — Data Link

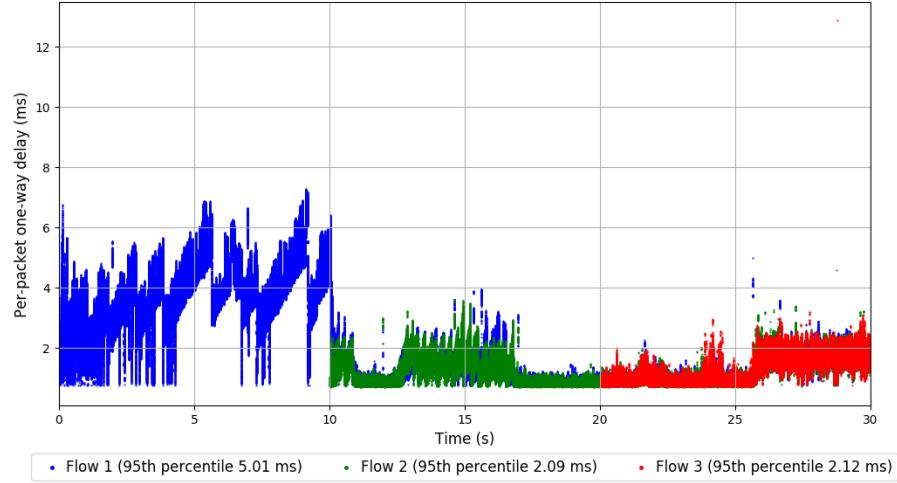
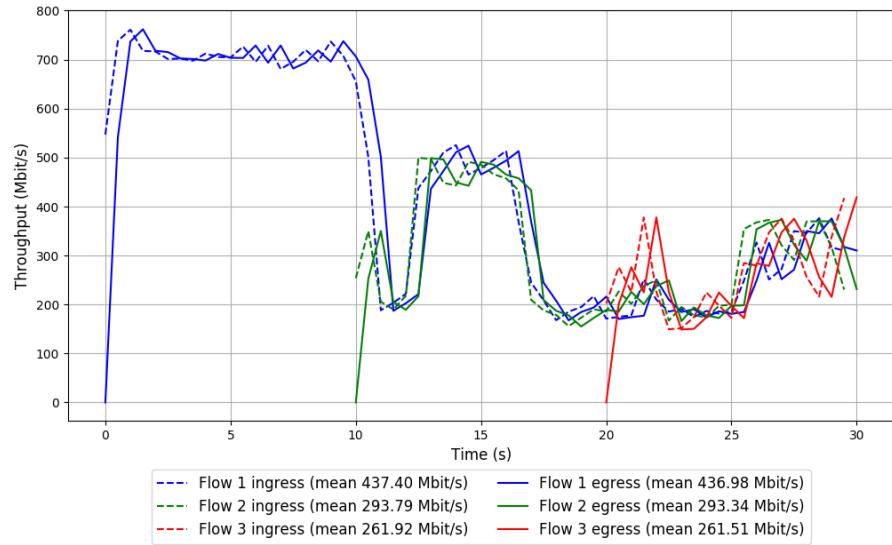


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-03 02:03:28
End at: 2019-01-03 02:03:58
Local clock offset: 0.034 ms
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2019-01-03 02:40:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 719.33 Mbit/s
95th percentile per-packet one-way delay: 4.669 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 436.98 Mbit/s
95th percentile per-packet one-way delay: 5.006 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 293.34 Mbit/s
95th percentile per-packet one-way delay: 2.087 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 261.51 Mbit/s
95th percentile per-packet one-way delay: 2.121 ms
Loss rate: 0.14%
```

Run 5: Report of TCP Cubic — Data Link

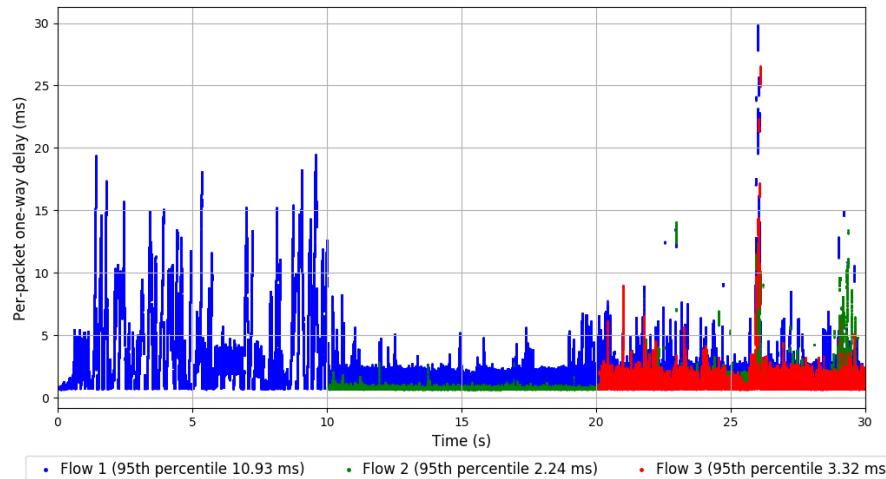
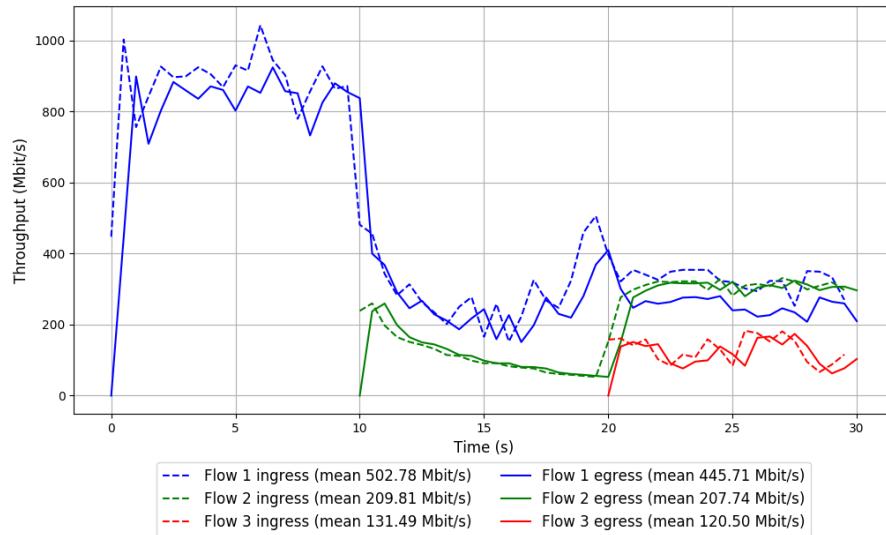


```
Run 1: Statistics of FillP

Start at: 2019-01-03 00:25:23
End at: 2019-01-03 00:25:53
Local clock offset: 0.569 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-01-03 02:41:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 623.96 Mbit/s
95th percentile per-packet one-way delay: 9.572 ms
Loss rate: 9.05%
-- Flow 1:
Average throughput: 445.71 Mbit/s
95th percentile per-packet one-way delay: 10.934 ms
Loss rate: 11.35%
-- Flow 2:
Average throughput: 207.74 Mbit/s
95th percentile per-packet one-way delay: 2.244 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 120.50 Mbit/s
95th percentile per-packet one-way delay: 3.324 ms
Loss rate: 8.35%
```

Run 1: Report of FillP — Data Link

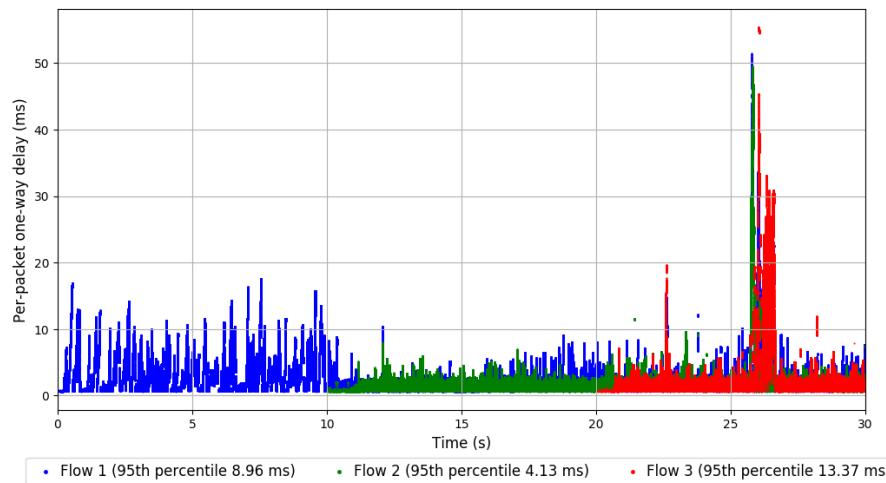
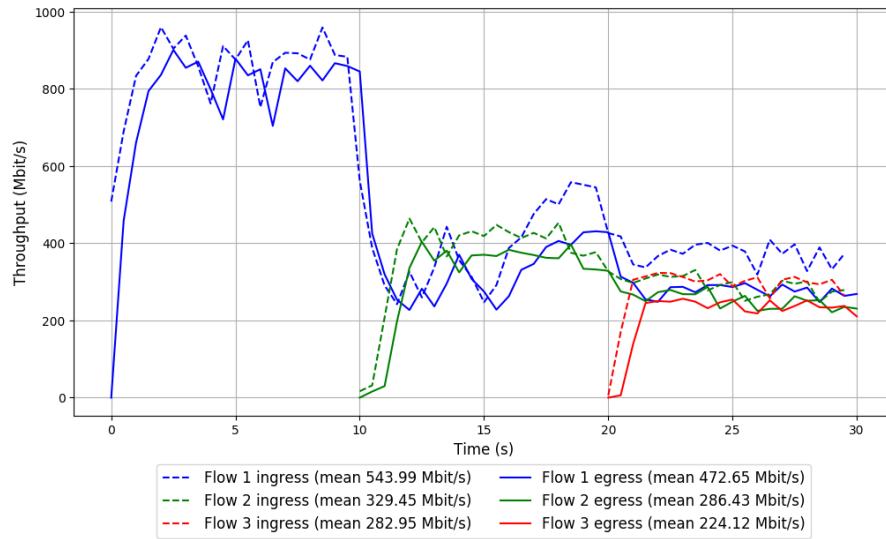


Run 2: Statistics of FillP

```
Start at: 2019-01-03 00:52:27
End at: 2019-01-03 00:52:57
Local clock offset: 0.4 ms
Remote clock offset: 2.627 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 737.49 Mbit/s
95th percentile per-packet one-way delay: 8.462 ms
Loss rate: 13.92%
-- Flow 1:
Average throughput: 472.65 Mbit/s
95th percentile per-packet one-way delay: 8.964 ms
Loss rate: 13.10%
-- Flow 2:
Average throughput: 286.43 Mbit/s
95th percentile per-packet one-way delay: 4.134 ms
Loss rate: 13.03%
-- Flow 3:
Average throughput: 224.12 Mbit/s
95th percentile per-packet one-way delay: 13.367 ms
Loss rate: 20.79%
```

Run 2: Report of FillP — Data Link

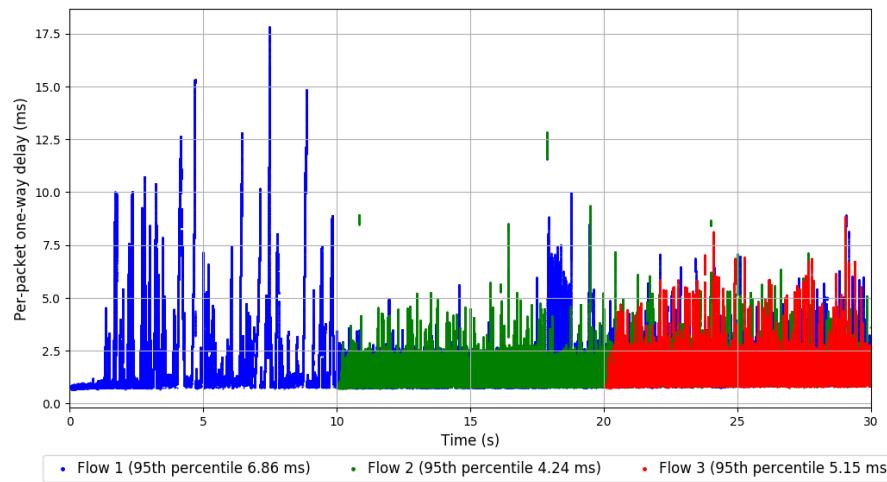
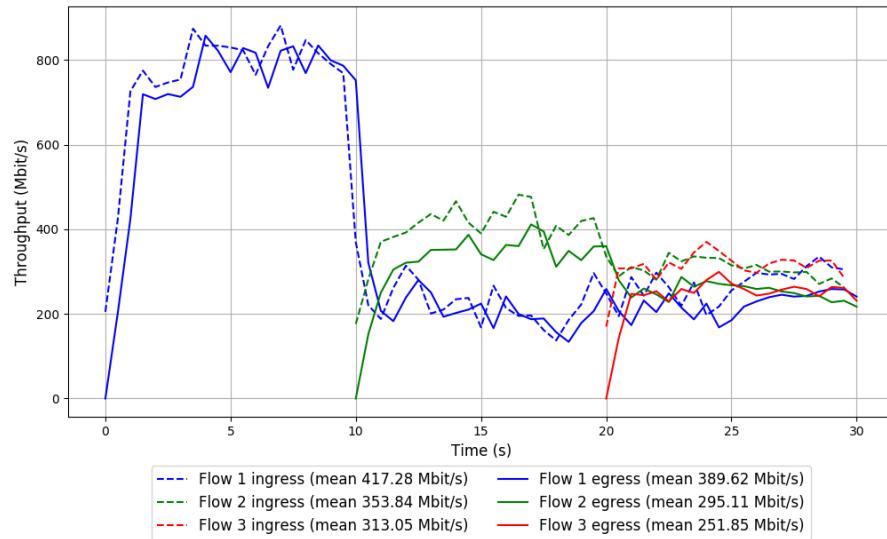


Run 3: Statistics of FillP

```
Start at: 2019-01-03 01:19:34
End at: 2019-01-03 01:20:04
Local clock offset: -3.334 ms
Remote clock offset: 1.339 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 669.37 Mbit/s
95th percentile per-packet one-way delay: 5.568 ms
Loss rate: 11.50%
-- Flow 1:
Average throughput: 389.62 Mbit/s
95th percentile per-packet one-way delay: 6.857 ms
Loss rate: 6.63%
-- Flow 2:
Average throughput: 295.11 Mbit/s
95th percentile per-packet one-way delay: 4.240 ms
Loss rate: 16.60%
-- Flow 3:
Average throughput: 251.85 Mbit/s
95th percentile per-packet one-way delay: 5.148 ms
Loss rate: 19.54%
```

Run 3: Report of FillP — Data Link

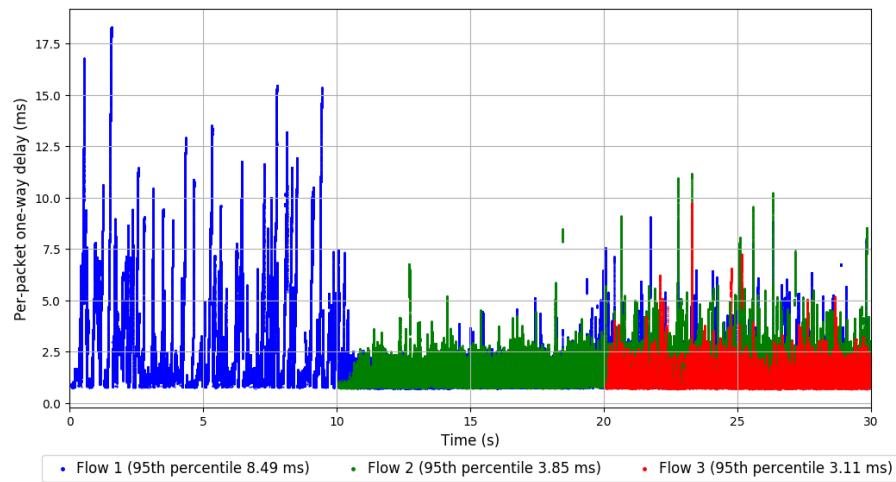
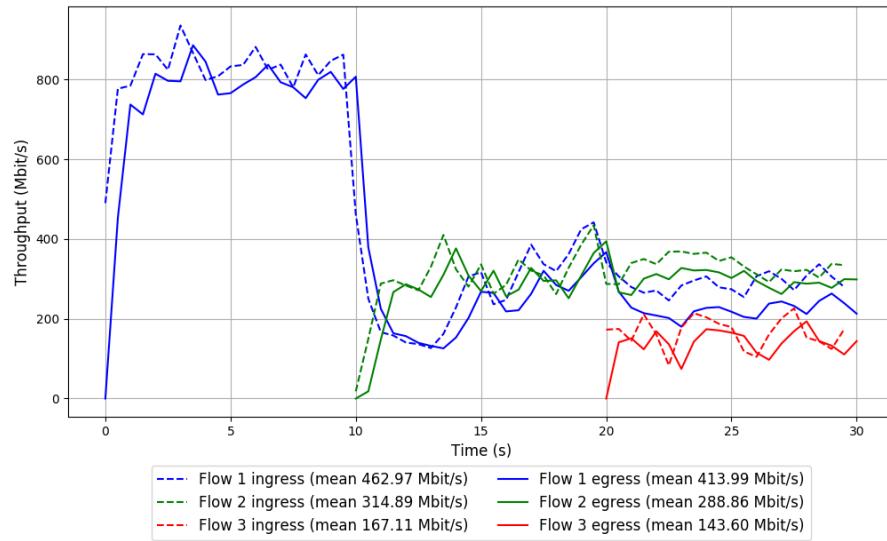


Run 4: Statistics of FillP

```
Start at: 2019-01-03 01:46:44
End at: 2019-01-03 01:47:14
Local clock offset: -0.175 ms
Remote clock offset: -1.727 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 653.72 Mbit/s
95th percentile per-packet one-way delay: 6.935 ms
Loss rate: 10.18%
-- Flow 1:
Average throughput: 413.99 Mbit/s
95th percentile per-packet one-way delay: 8.491 ms
Loss rate: 10.58%
-- Flow 2:
Average throughput: 288.86 Mbit/s
95th percentile per-packet one-way delay: 3.847 ms
Loss rate: 8.27%
-- Flow 3:
Average throughput: 143.60 Mbit/s
95th percentile per-packet one-way delay: 3.107 ms
Loss rate: 14.07%
```

Run 4: Report of FillP — Data Link

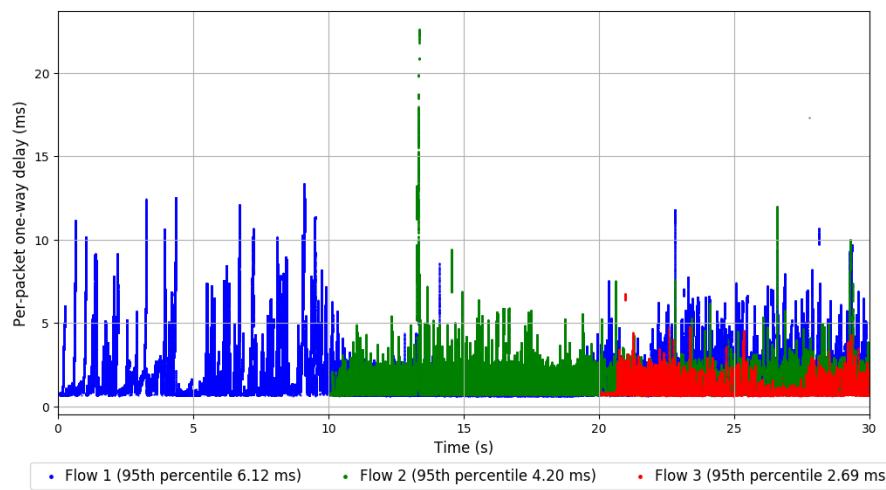
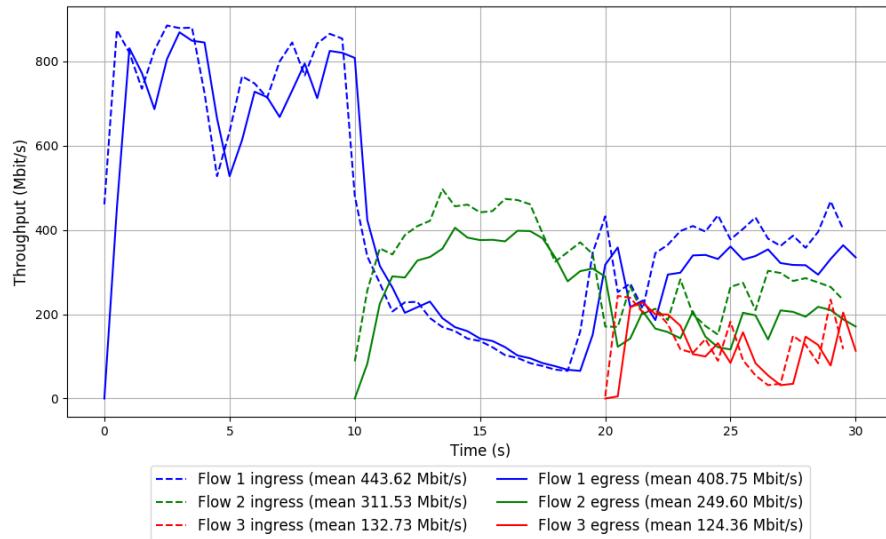


Run 5: Statistics of FillP

```
Start at: 2019-01-03 02:13:45
End at: 2019-01-03 02:14:15
Local clock offset: 0.04 ms
Remote clock offset: -0.828 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 616.07 Mbit/s
95th percentile per-packet one-way delay: 5.403 ms
Loss rate: 11.35%
-- Flow 1:
Average throughput: 408.75 Mbit/s
95th percentile per-packet one-way delay: 6.115 ms
Loss rate: 7.86%
-- Flow 2:
Average throughput: 249.60 Mbit/s
95th percentile per-packet one-way delay: 4.202 ms
Loss rate: 19.88%
-- Flow 3:
Average throughput: 124.36 Mbit/s
95th percentile per-packet one-way delay: 2.690 ms
Loss rate: 6.31%
```

Run 5: Report of FillP — Data Link

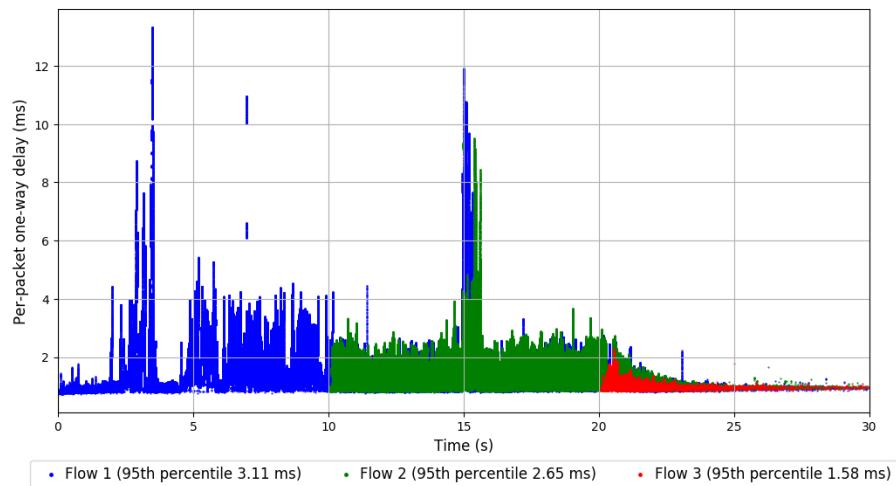
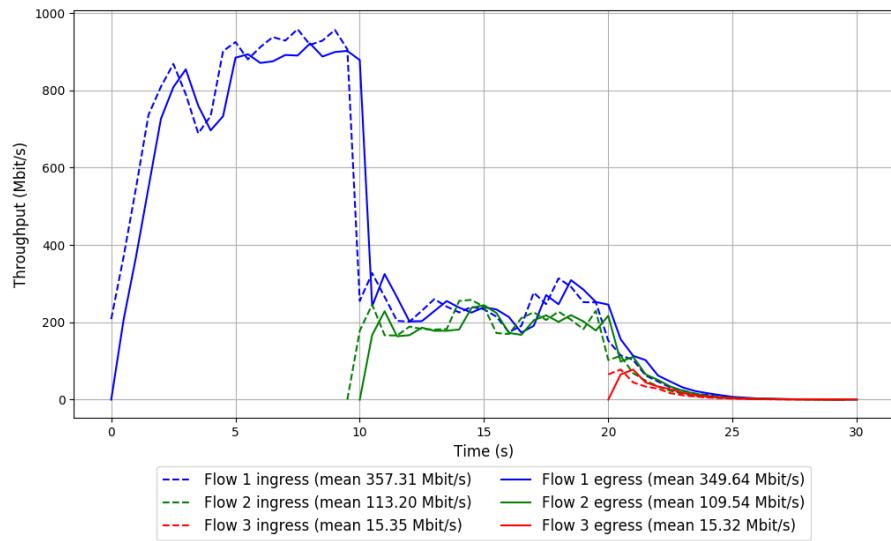


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-03 00:12:07
End at: 2019-01-03 00:12:37
Local clock offset: 0.006 ms
Remote clock offset: 1.04 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.53 Mbit/s
95th percentile per-packet one-way delay: 3.040 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 349.64 Mbit/s
95th percentile per-packet one-way delay: 3.111 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 109.54 Mbit/s
95th percentile per-packet one-way delay: 2.652 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 1.580 ms
Loss rate: 0.21%
```

Run 1: Report of FillP-Sheep — Data Link

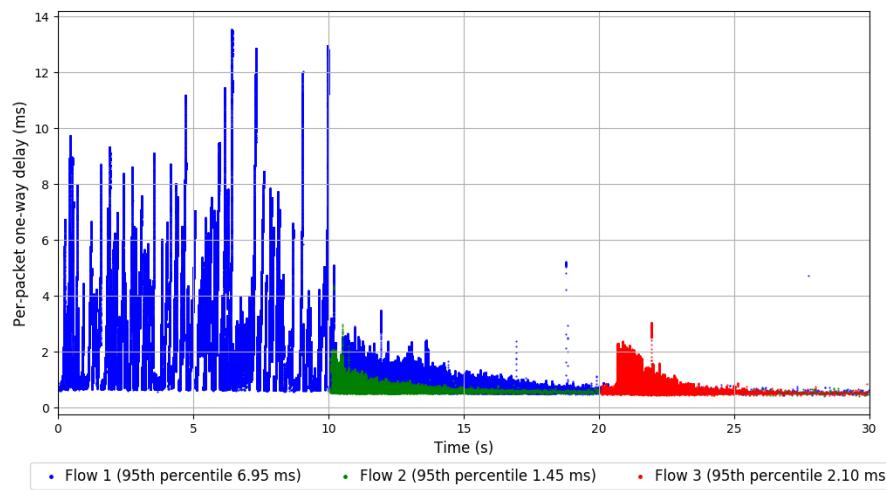
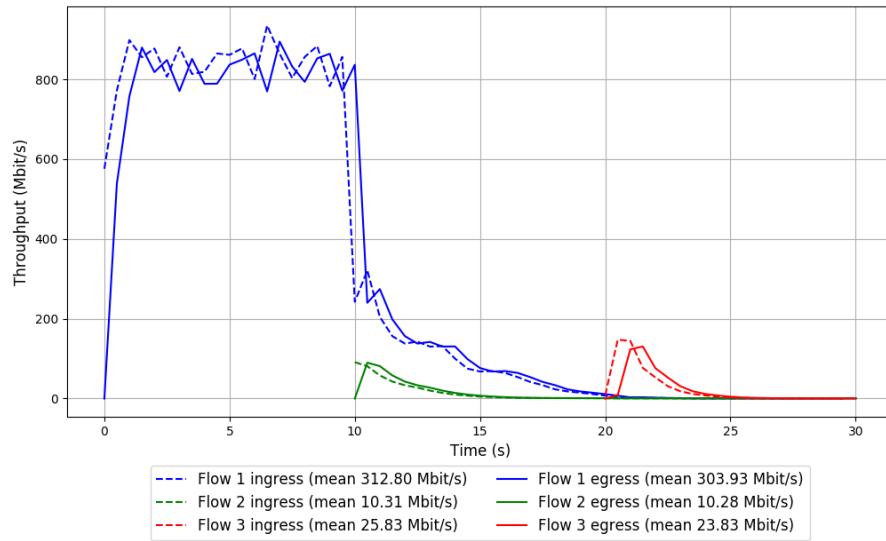


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-03 00:39:10
End at: 2019-01-03 00:39:40
Local clock offset: 0.352 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2019-01-03 02:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.65 Mbit/s
95th percentile per-packet one-way delay: 6.866 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 303.93 Mbit/s
95th percentile per-packet one-way delay: 6.948 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 1.446 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 2.102 ms
Loss rate: 7.73%
```

Run 2: Report of FillP-Sheep — Data Link

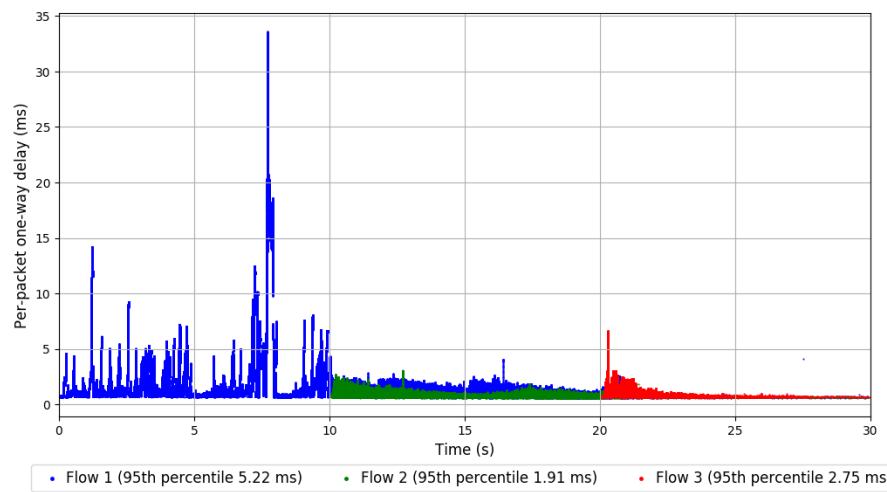
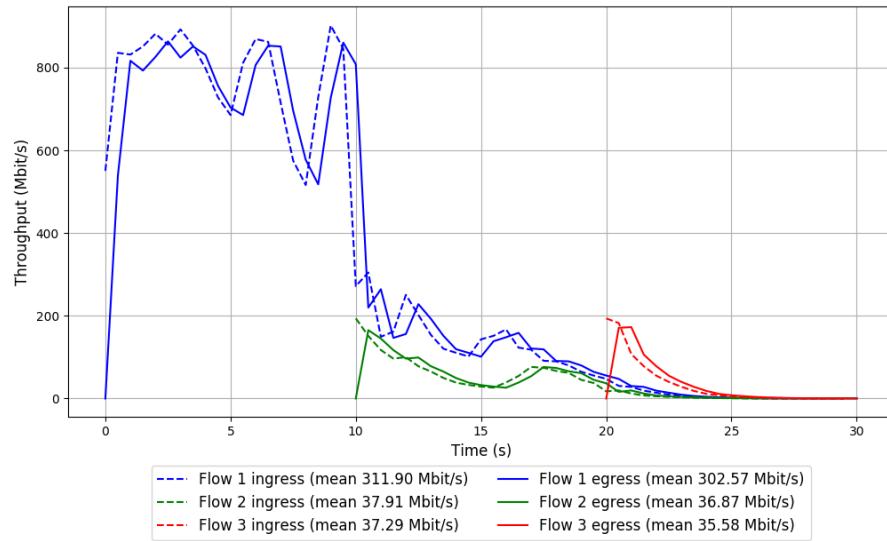


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-03 01:06:15
End at: 2019-01-03 01:06:45
Local clock offset: -2.285 ms
Remote clock offset: 3.73 ms

# Below is generated by plot.py at 2019-01-03 02:45:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.66 Mbit/s
95th percentile per-packet one-way delay: 5.005 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 302.57 Mbit/s
95th percentile per-packet one-way delay: 5.222 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 1.913 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 2.752 ms
Loss rate: 4.59%
```

Run 3: Report of FillP-Sheep — Data Link

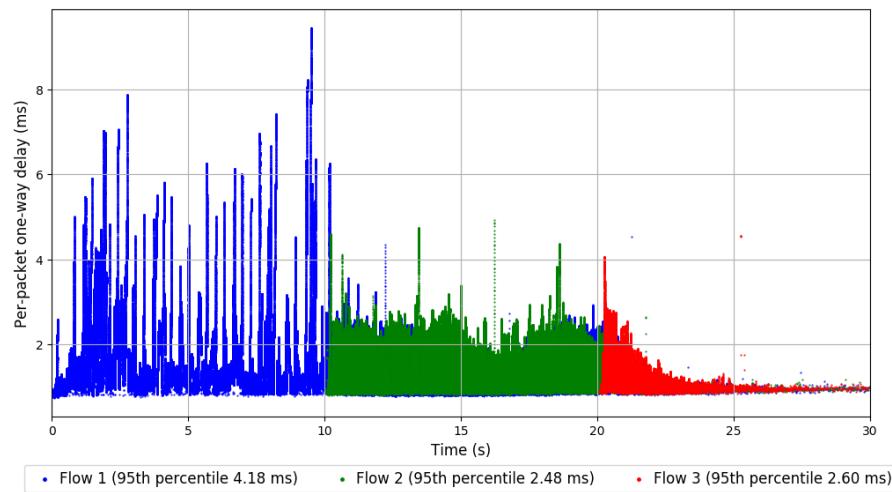
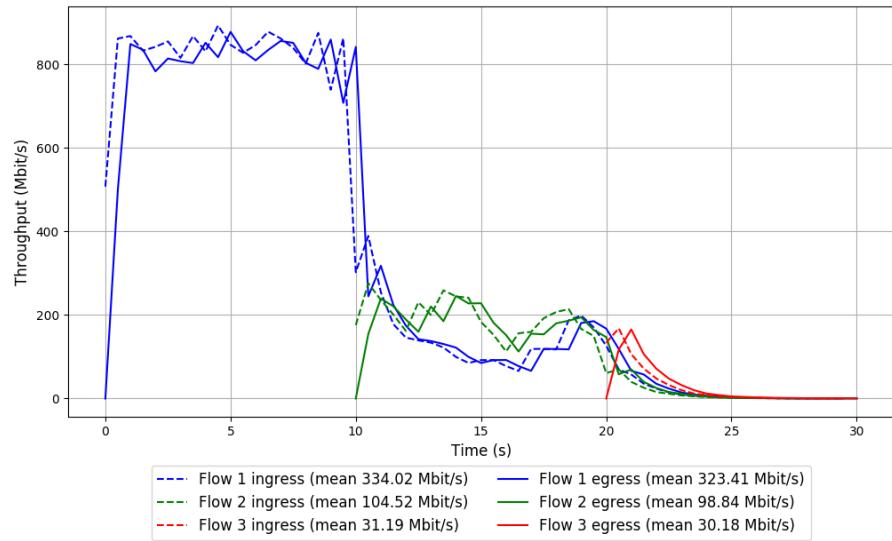


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-03 01:33:28
End at: 2019-01-03 01:33:58
Local clock offset: -1.072 ms
Remote clock offset: -0.86 ms

# Below is generated by plot.py at 2019-01-03 02:46:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.08 Mbit/s
95th percentile per-packet one-way delay: 3.867 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 323.41 Mbit/s
95th percentile per-packet one-way delay: 4.185 ms
Loss rate: 3.18%
-- Flow 2:
Average throughput: 98.84 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 5.43%
-- Flow 3:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 2.604 ms
Loss rate: 3.22%
```

Run 4: Report of FillP-Sheep — Data Link

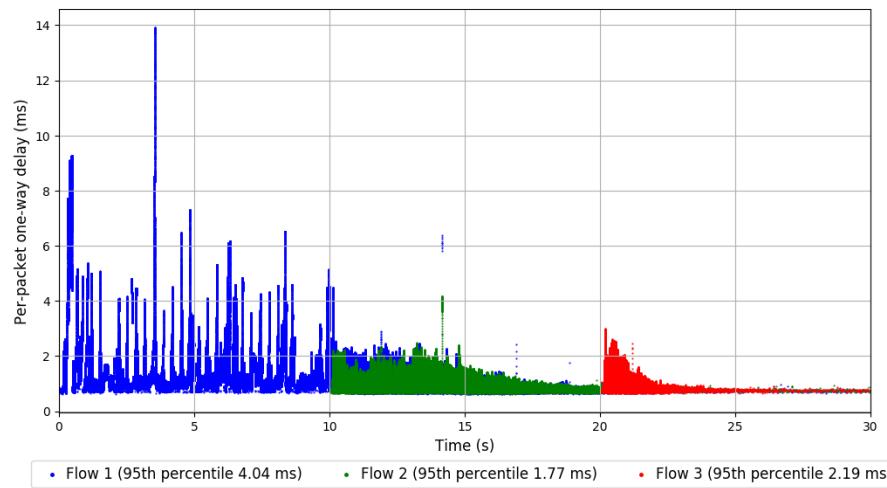
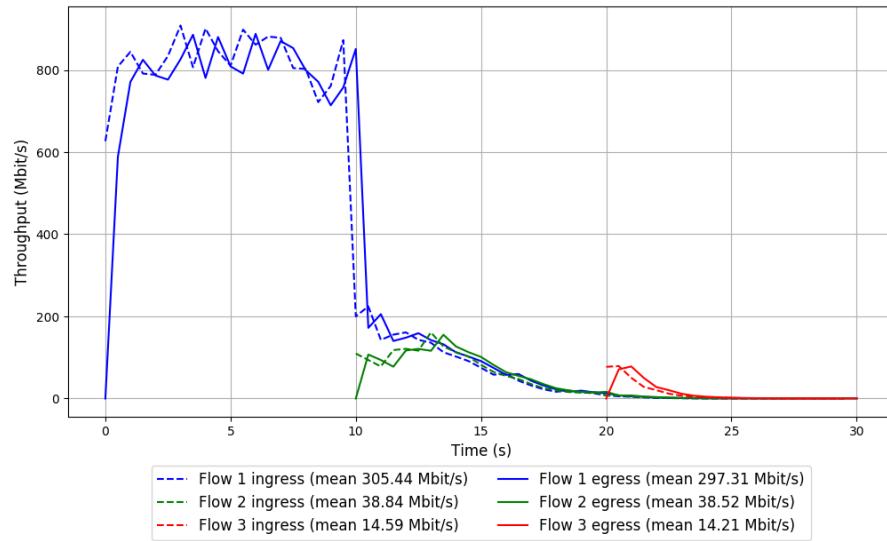


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-03 02:00:34
End at: 2019-01-03 02:01:04
Local clock offset: 0.037 ms
Remote clock offset: -0.763 ms

# Below is generated by plot.py at 2019-01-03 02:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.54 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 297.31 Mbit/s
95th percentile per-packet one-way delay: 4.038 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 1.769 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 2.62%
```

Run 5: Report of FillP-Sheep — Data Link

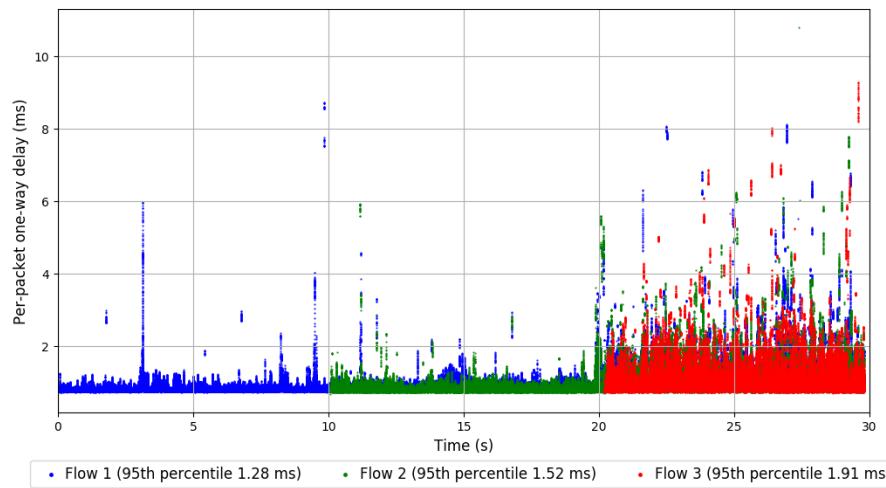
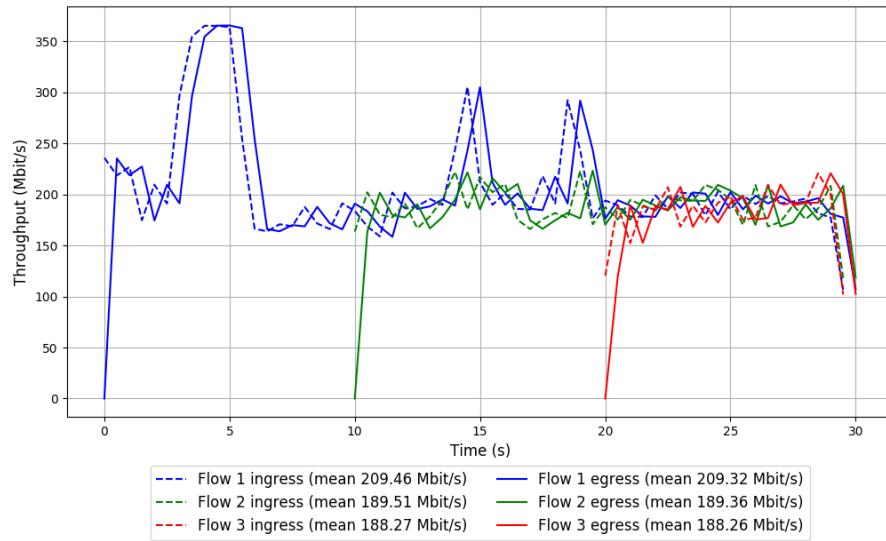


Run 1: Statistics of Indigo

```
Start at: 2019-01-03 00:28:47
End at: 2019-01-03 00:29:17
Local clock offset: 0.479 ms
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2019-01-03 02:47:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.46 Mbit/s
95th percentile per-packet one-way delay: 1.499 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 1.278 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 189.36 Mbit/s
95th percentile per-packet one-way delay: 1.519 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 188.26 Mbit/s
95th percentile per-packet one-way delay: 1.914 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

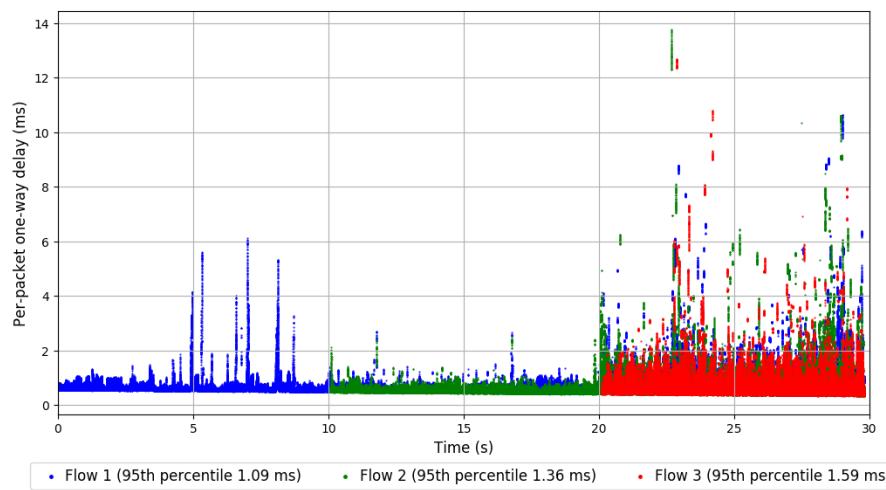
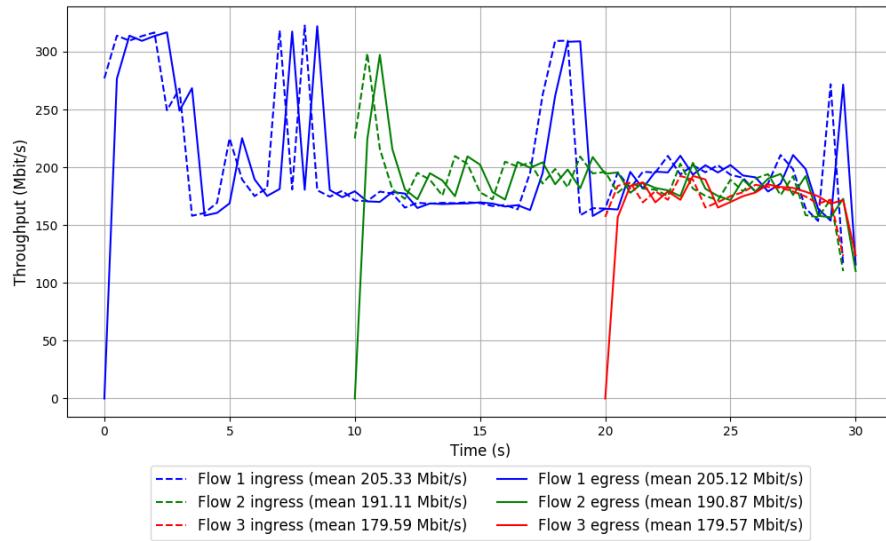


Run 2: Statistics of Indigo

```
Start at: 2019-01-03 00:55:54
End at: 2019-01-03 00:56:24
Local clock offset: -0.04 ms
Remote clock offset: 3.081 ms

# Below is generated by plot.py at 2019-01-03 02:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.06 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 205.12 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 190.87 Mbit/s
95th percentile per-packet one-way delay: 1.359 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 179.57 Mbit/s
95th percentile per-packet one-way delay: 1.586 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

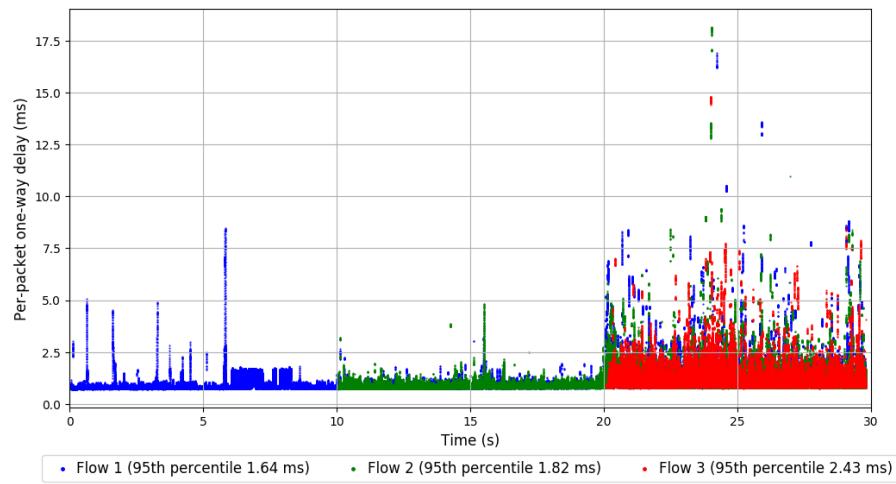
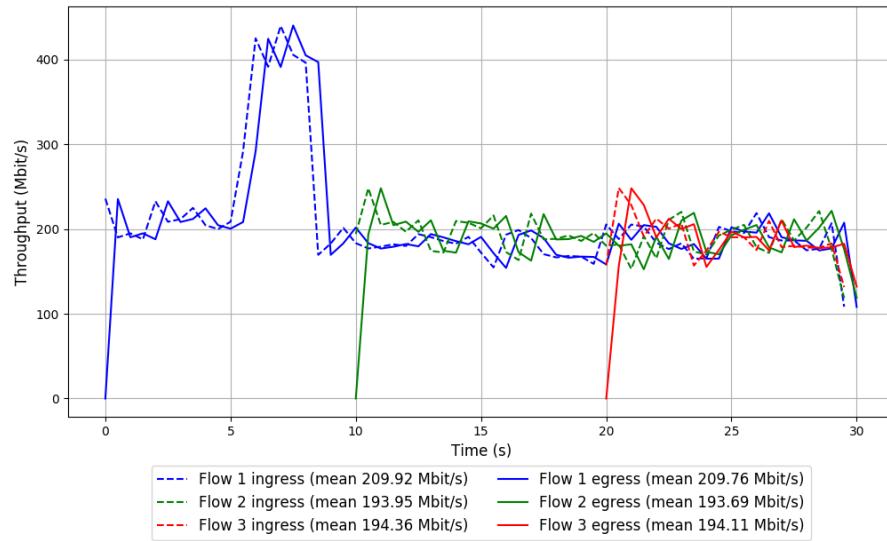


Run 3: Statistics of Indigo

```
Start at: 2019-01-03 01:22:59
End at: 2019-01-03 01:23:29
Local clock offset: -3.523 ms
Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-01-03 02:48:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.18 Mbit/s
95th percentile per-packet one-way delay: 1.838 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 209.76 Mbit/s
95th percentile per-packet one-way delay: 1.637 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 193.69 Mbit/s
95th percentile per-packet one-way delay: 1.816 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 194.11 Mbit/s
95th percentile per-packet one-way delay: 2.427 ms
Loss rate: 0.10%
```

Run 3: Report of Indigo — Data Link

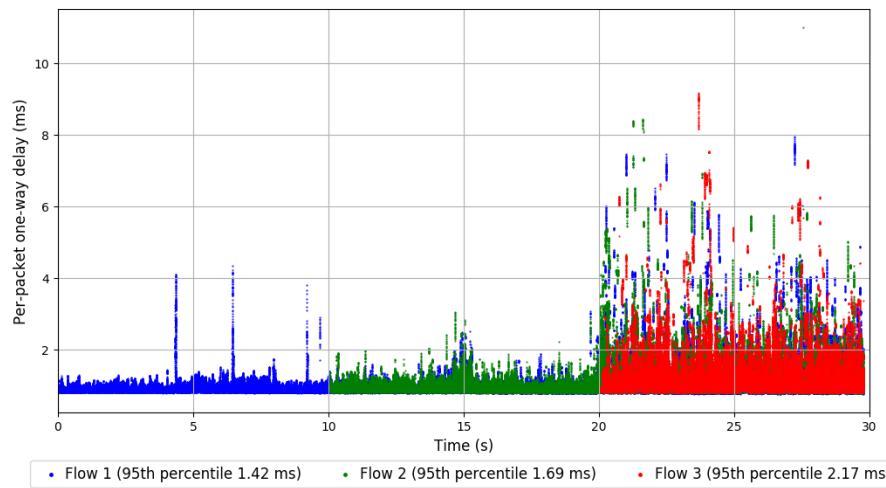
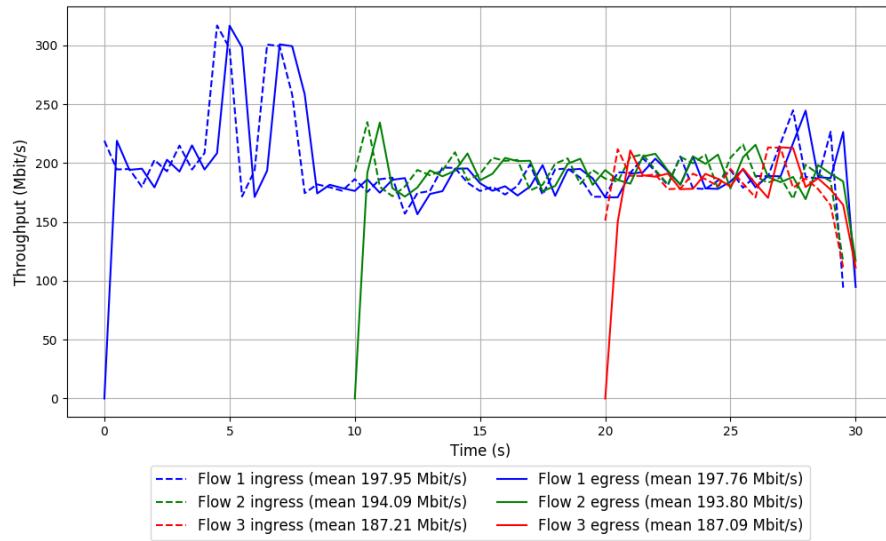


Run 4: Statistics of Indigo

```
Start at: 2019-01-03 01:50:07
End at: 2019-01-03 01:50:37
Local clock offset: -0.044 ms
Remote clock offset: -1.188 ms

# Below is generated by plot.py at 2019-01-03 02:49:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 197.76 Mbit/s
95th percentile per-packet one-way delay: 1.423 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 193.80 Mbit/s
95th percentile per-packet one-way delay: 1.694 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 187.09 Mbit/s
95th percentile per-packet one-way delay: 2.165 ms
Loss rate: 0.05%
```

Run 4: Report of Indigo — Data Link

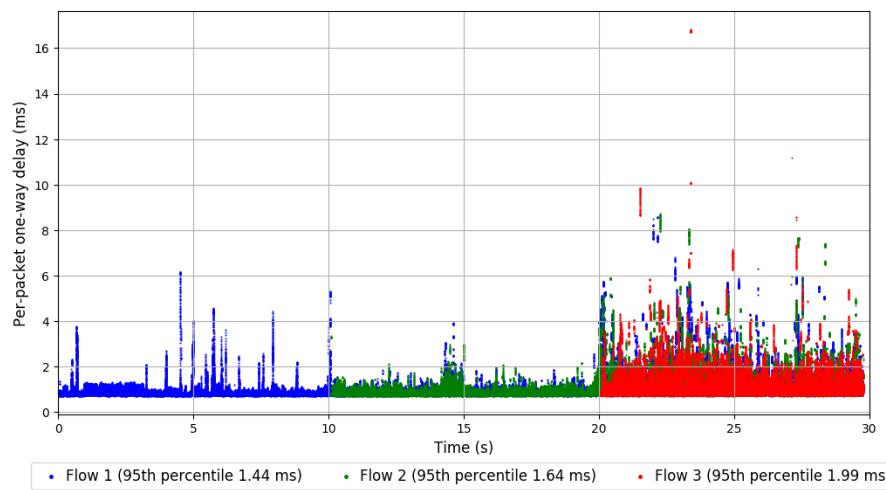
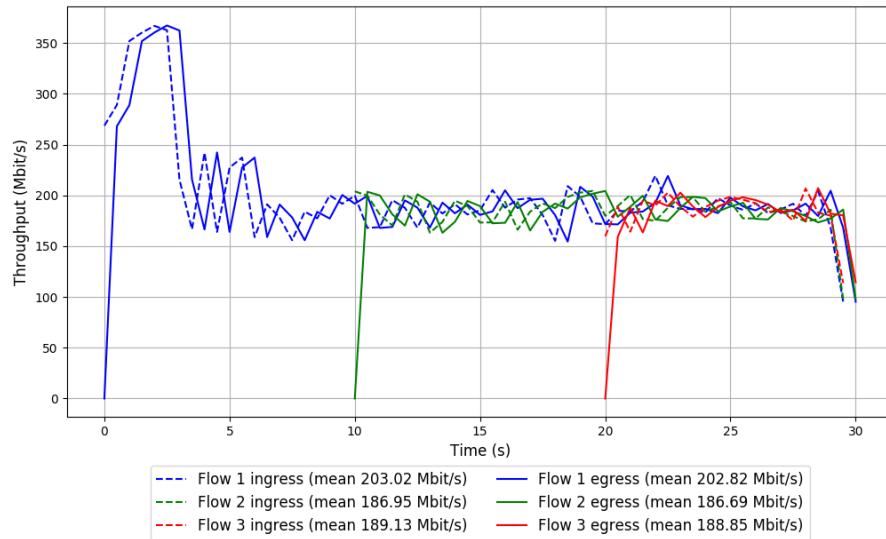


Run 5: Statistics of Indigo

```
Start at: 2019-01-03 02:17:08
End at: 2019-01-03 02:17:38
Local clock offset: 0.034 ms
Remote clock offset: -0.88 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.77 Mbit/s
95th percentile per-packet one-way delay: 1.639 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 202.82 Mbit/s
95th percentile per-packet one-way delay: 1.442 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 186.69 Mbit/s
95th percentile per-packet one-way delay: 1.636 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 188.85 Mbit/s
95th percentile per-packet one-way delay: 1.987 ms
Loss rate: 0.15%
```

Run 5: Report of Indigo — Data Link

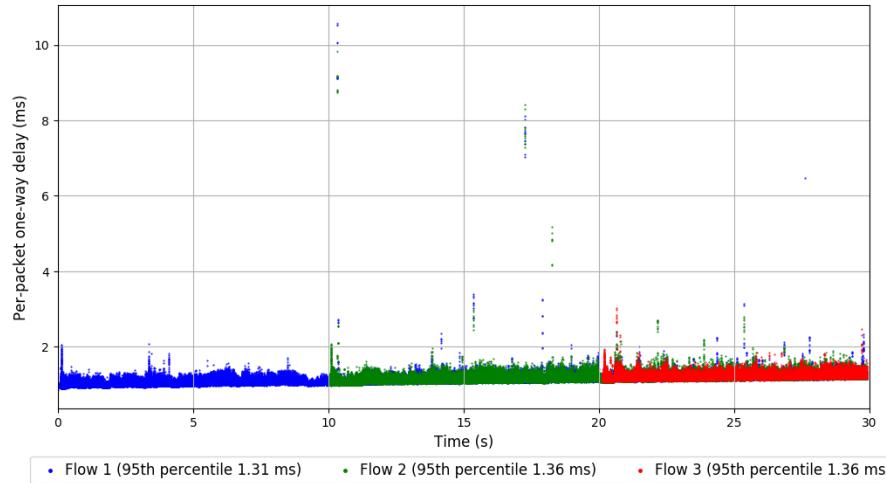
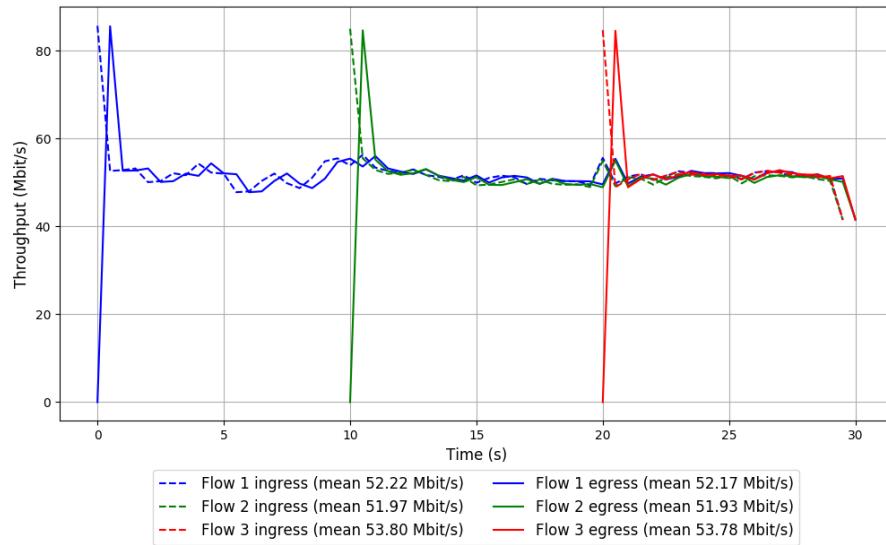


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-03 00:05:43
End at: 2019-01-03 00:06:13
Local clock offset: -0.651 ms
Remote clock offset: 2.674 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.29 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 52.17 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 51.93 Mbit/s
95th percentile per-packet one-way delay: 1.361 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo-MusesD — Data Link

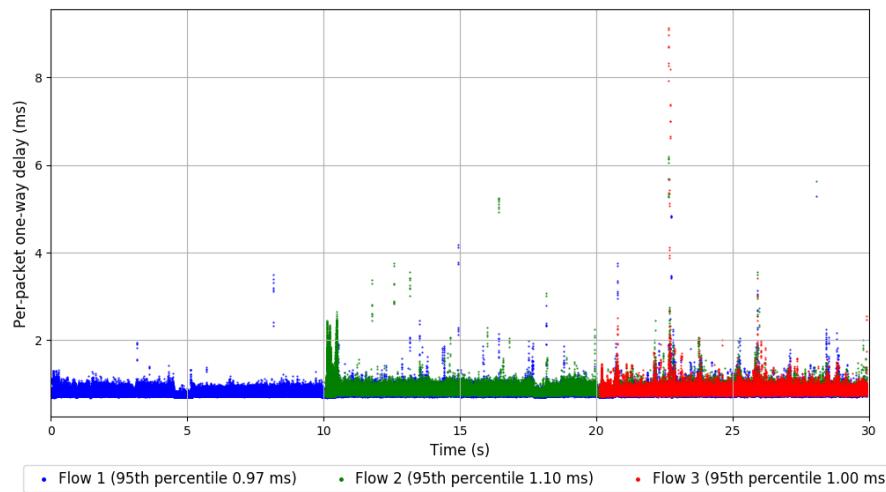
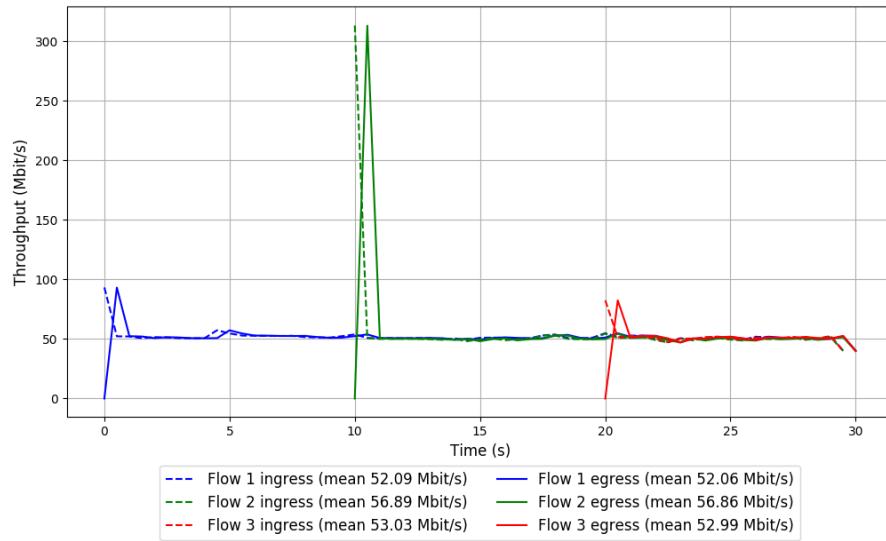


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 00:32:48
End at: 2019-01-03 00:33:18
Local clock offset: 0.388 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.22 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 52.06 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 56.86 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 1.003 ms
Loss rate: 0.07%
```

Run 2: Report of Indigo-MusesD — Data Link

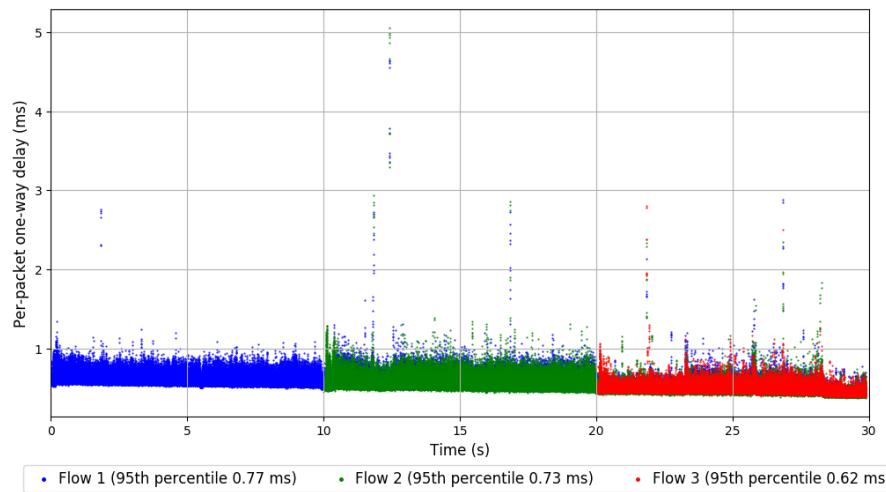
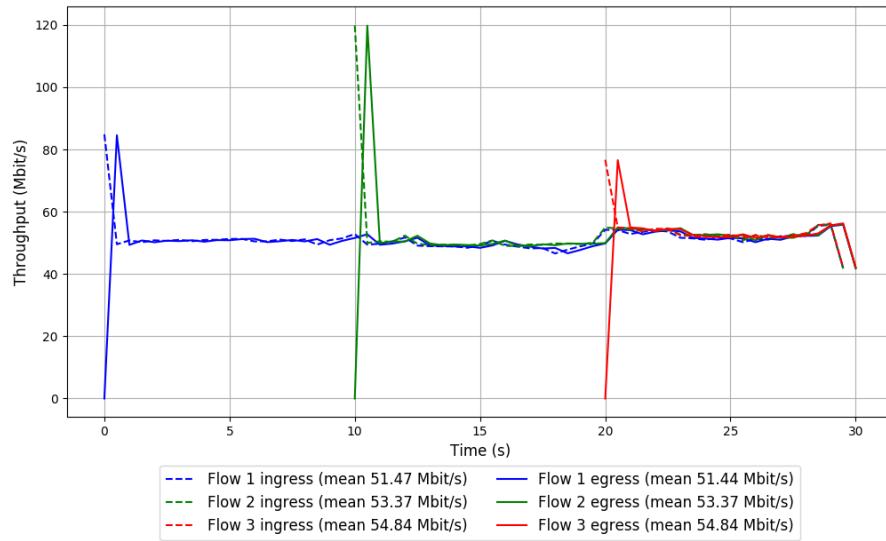


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 00:59:54
End at: 2019-01-03 01:00:24
Local clock offset: -1.192 ms
Remote clock offset: 3.274 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.95 Mbit/s
95th percentile per-packet one-way delay: 0.744 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 51.44 Mbit/s
95th percentile per-packet one-way delay: 0.766 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 0.730 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 0.618 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

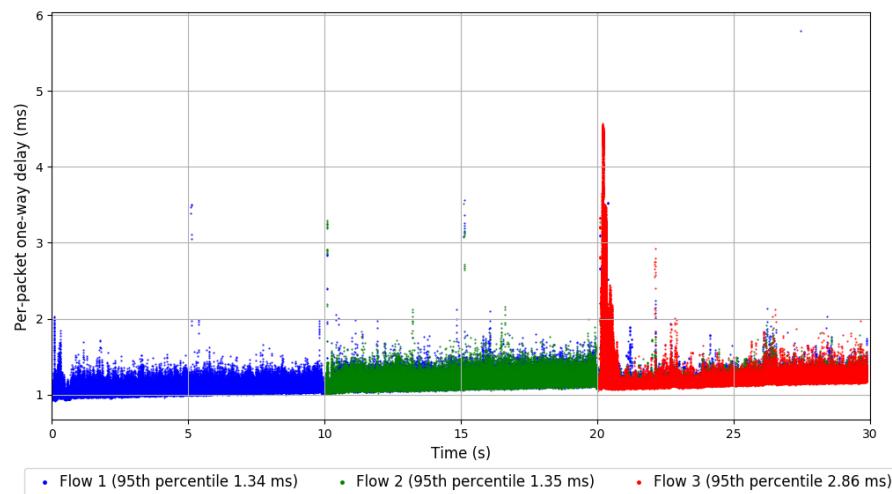
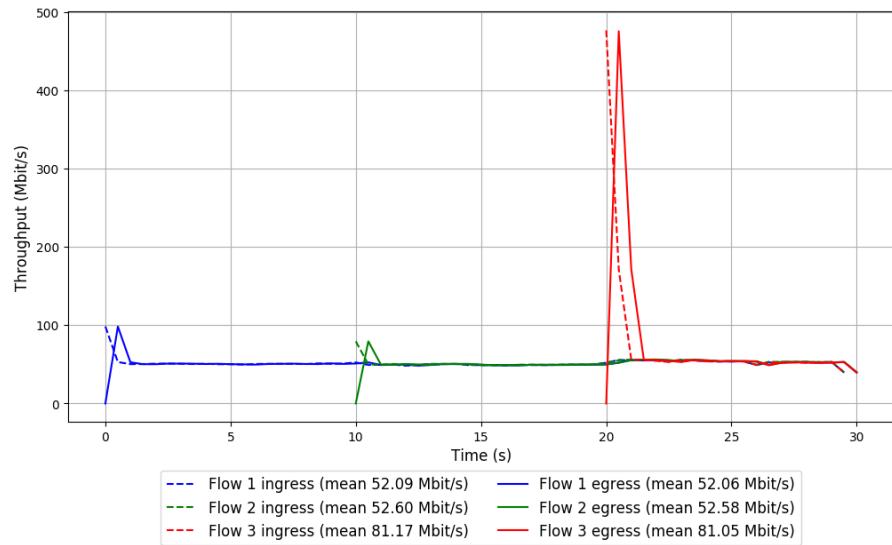


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 01:26:59
End at: 2019-01-03 01:27:29
Local clock offset: -2.639 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.73 Mbit/s
95th percentile per-packet one-way delay: 1.506 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 52.06 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 52.58 Mbit/s
95th percentile per-packet one-way delay: 1.355 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 2.860 ms
Loss rate: 0.14%
```

Run 4: Report of Indigo-MusesD — Data Link

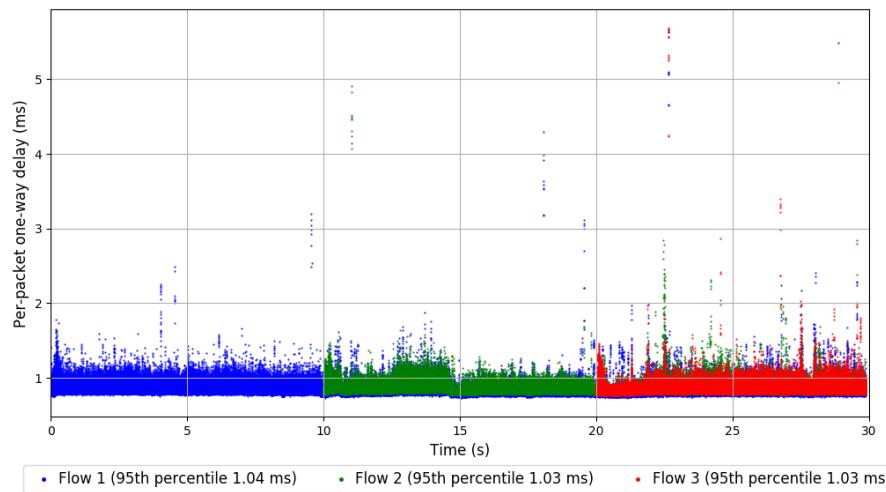
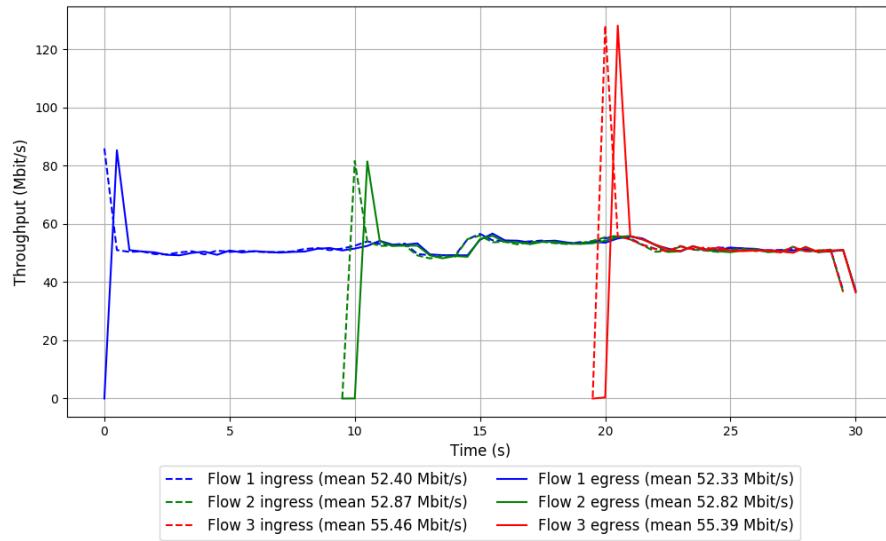


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 01:54:07
End at: 2019-01-03 01:54:37
Local clock offset: 0.025 ms
Remote clock offset: -0.89 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.78 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 52.33 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 52.82 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.13%
```

Run 5: Report of Indigo-MusesD — Data Link

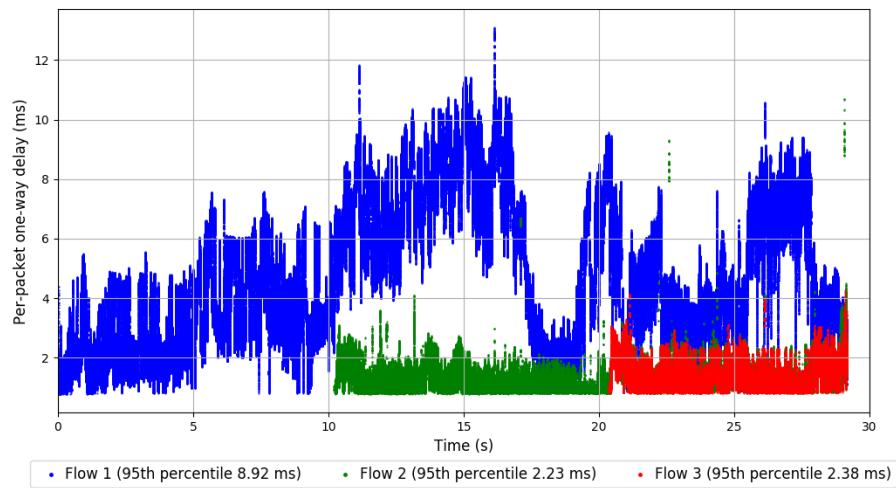
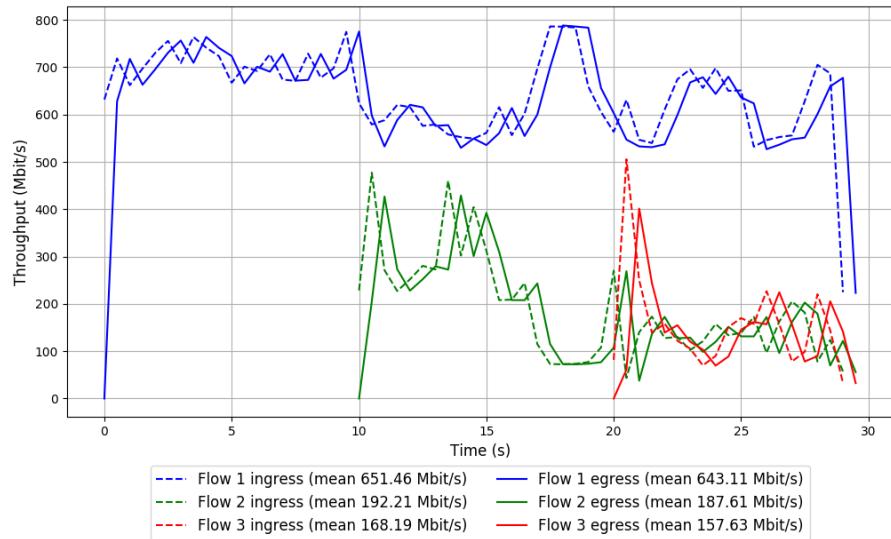


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 00:22:23
End at: 2019-01-03 00:22:53
Local clock offset: 0.532 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-03 02:56:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 812.61 Mbit/s
95th percentile per-packet one-way delay: 8.652 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 643.11 Mbit/s
95th percentile per-packet one-way delay: 8.916 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 187.61 Mbit/s
95th percentile per-packet one-way delay: 2.226 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 157.63 Mbit/s
95th percentile per-packet one-way delay: 2.375 ms
Loss rate: 6.28%
```

Run 1: Report of Indigo-MusesT — Data Link

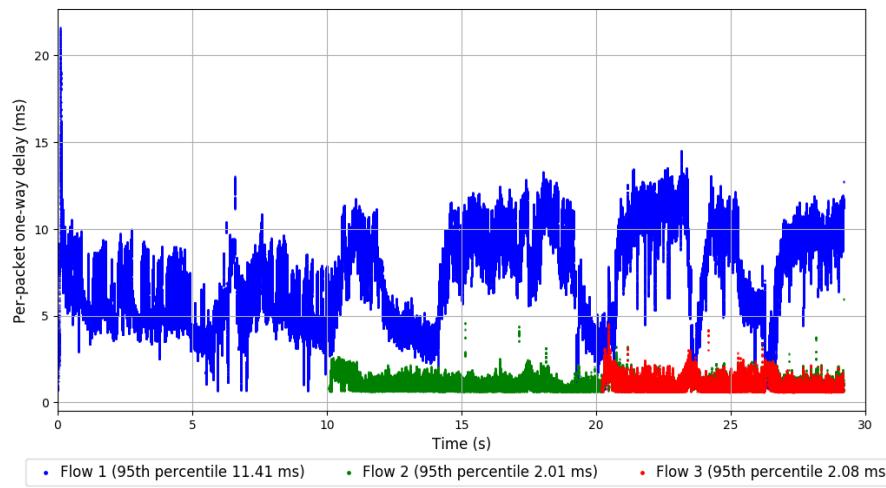
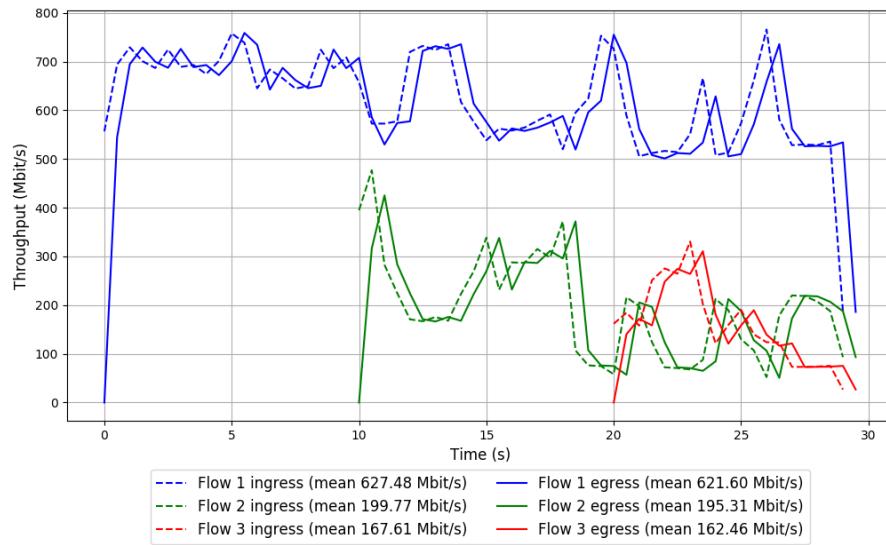


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 00:49:16
End at: 2019-01-03 00:49:46
Local clock offset: 0.391 ms
Remote clock offset: 2.209 ms

# Below is generated by plot.py at 2019-01-03 02:56:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 799.35 Mbit/s
95th percentile per-packet one-way delay: 11.207 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 621.60 Mbit/s
95th percentile per-packet one-way delay: 11.415 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 195.31 Mbit/s
95th percentile per-packet one-way delay: 2.011 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 162.46 Mbit/s
95th percentile per-packet one-way delay: 2.081 ms
Loss rate: 3.07%
```

Run 2: Report of Indigo-MusesT — Data Link

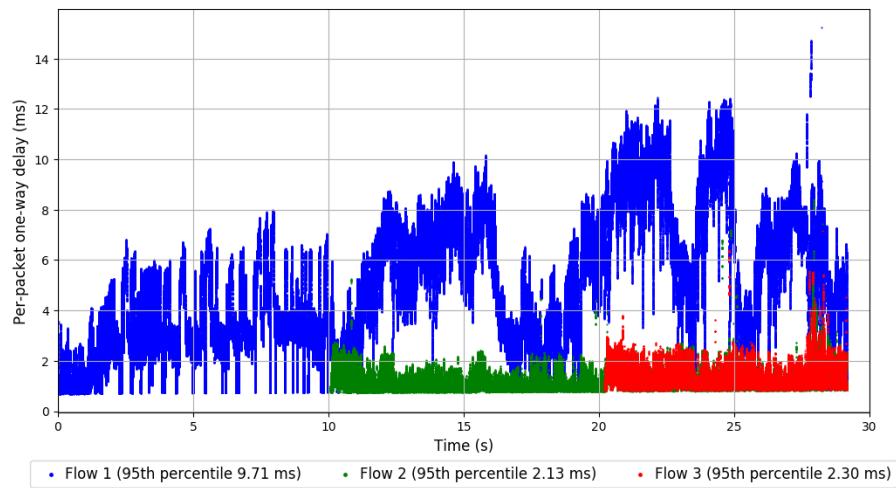
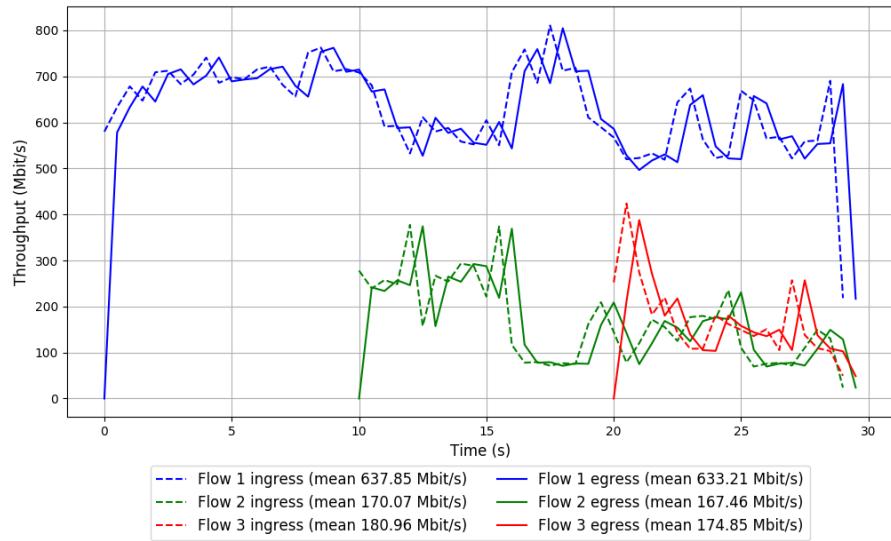


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 01:16:24
End at: 2019-01-03 01:16:54
Local clock offset: -3.176 ms
Remote clock offset: 2.224 ms

# Below is generated by plot.py at 2019-01-03 02:56:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 796.80 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 633.21 Mbit/s
95th percentile per-packet one-way delay: 9.713 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 167.46 Mbit/s
95th percentile per-packet one-way delay: 2.132 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 174.85 Mbit/s
95th percentile per-packet one-way delay: 2.299 ms
Loss rate: 3.38%
```

Run 3: Report of Indigo-MusesT — Data Link

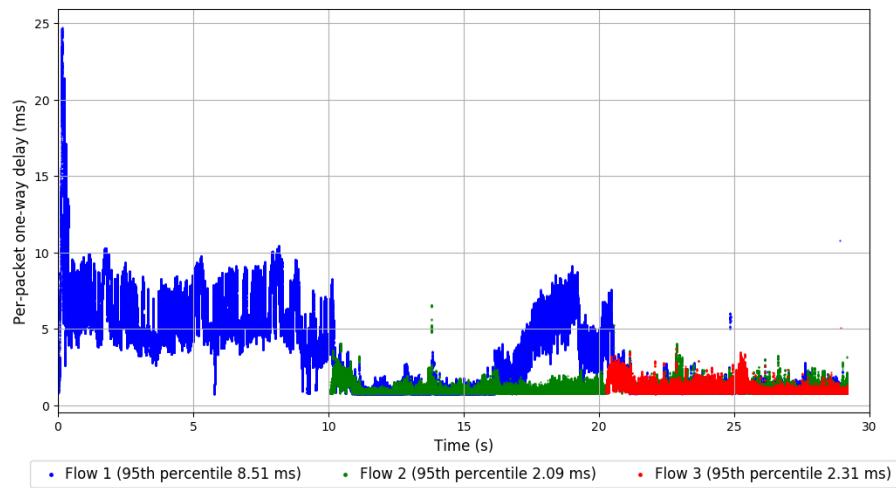
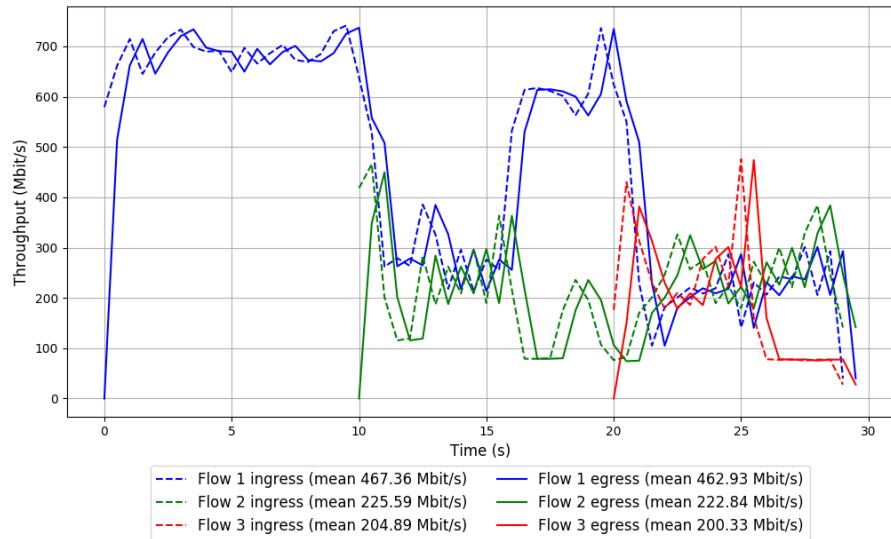


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 01:43:38
End at: 2019-01-03 01:44:08
Local clock offset: -0.282 ms
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2019-01-03 02:56:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 670.23 Mbit/s
95th percentile per-packet one-way delay: 8.129 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 462.93 Mbit/s
95th percentile per-packet one-way delay: 8.508 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 222.84 Mbit/s
95th percentile per-packet one-way delay: 2.092 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 200.33 Mbit/s
95th percentile per-packet one-way delay: 2.314 ms
Loss rate: 2.23%
```

Run 4: Report of Indigo-MusesT — Data Link

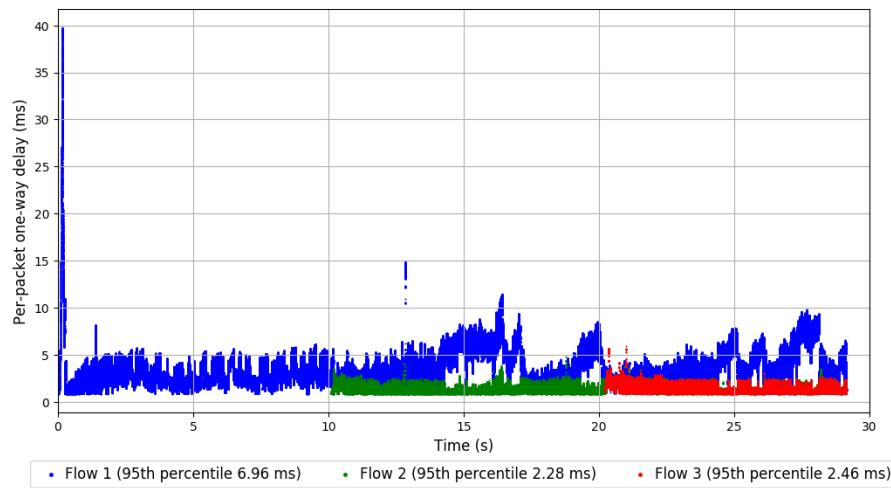
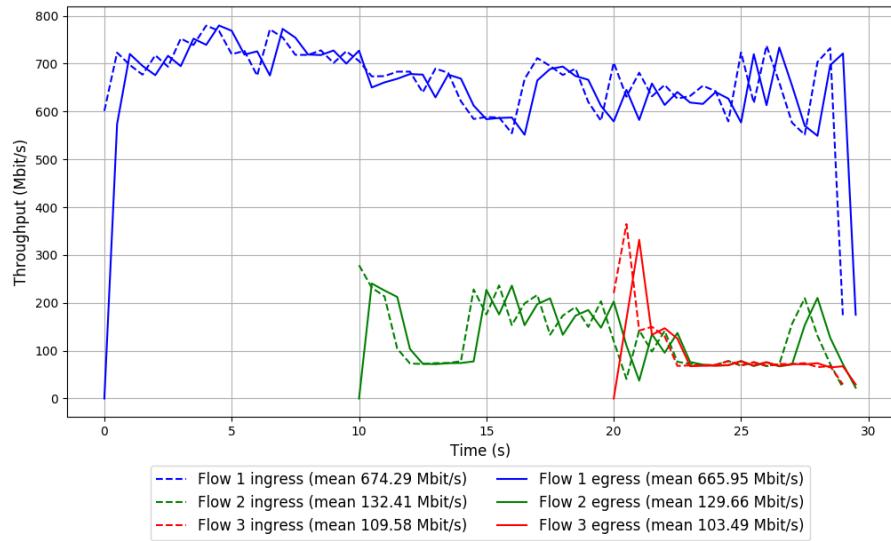


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 02:10:36
End at: 2019-01-03 02:11:06
Local clock offset: 0.027 ms
Remote clock offset: -0.653 ms

# Below is generated by plot.py at 2019-01-03 02:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 782.45 Mbit/s
95th percentile per-packet one-way delay: 6.734 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 665.95 Mbit/s
95th percentile per-packet one-way delay: 6.960 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 129.66 Mbit/s
95th percentile per-packet one-way delay: 2.280 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 103.49 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 5.56%
```

Run 5: Report of Indigo-MusesT — Data Link

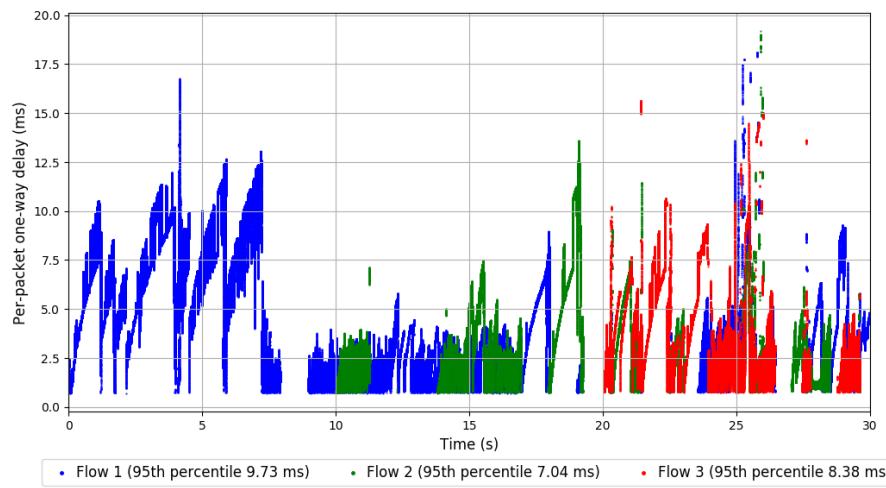
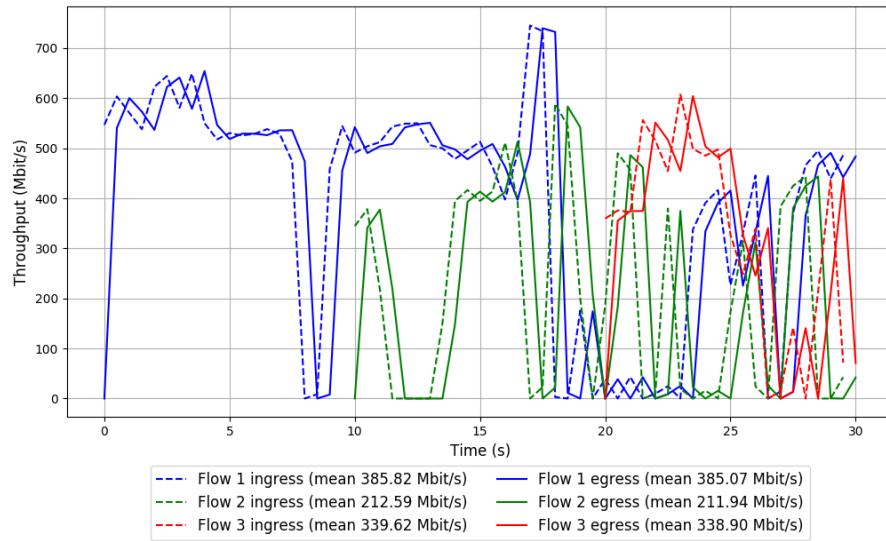


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-03 00:19:27
End at: 2019-01-03 00:19:57
Local clock offset: 0.431 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-01-03 02:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 632.00 Mbit/s
95th percentile per-packet one-way delay: 9.340 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 385.07 Mbit/s
95th percentile per-packet one-way delay: 9.731 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 211.94 Mbit/s
95th percentile per-packet one-way delay: 7.037 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 338.90 Mbit/s
95th percentile per-packet one-way delay: 8.380 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link

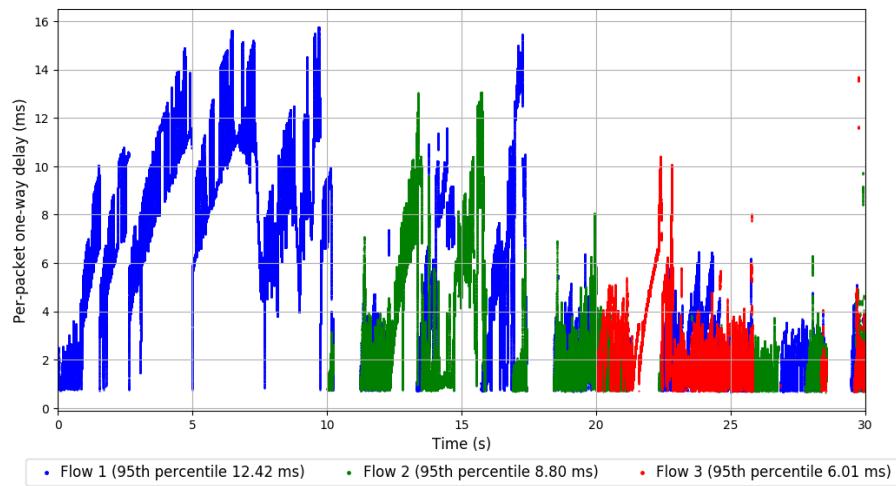
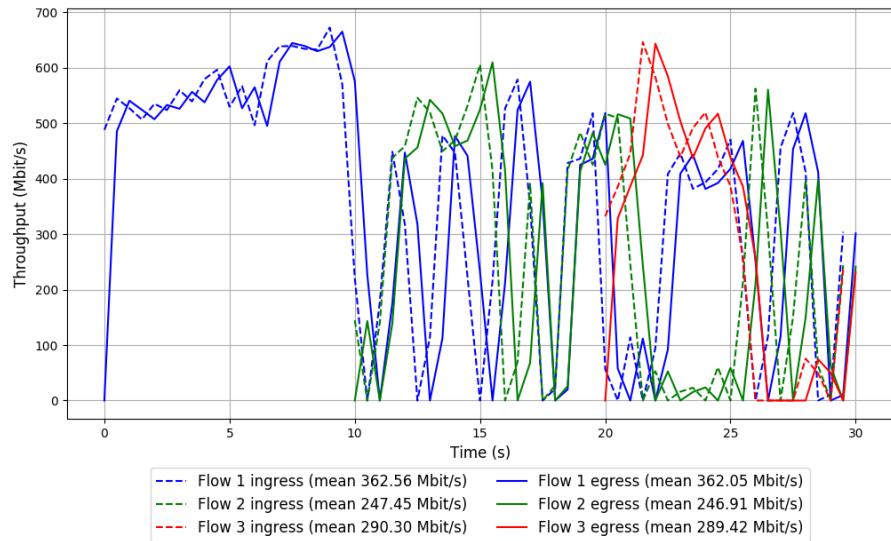


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-03 00:46:21
End at: 2019-01-03 00:46:51
Local clock offset: 0.375 ms
Remote clock offset: 1.843 ms

# Below is generated by plot.py at 2019-01-03 02:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 622.74 Mbit/s
95th percentile per-packet one-way delay: 11.508 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 362.05 Mbit/s
95th percentile per-packet one-way delay: 12.418 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 246.91 Mbit/s
95th percentile per-packet one-way delay: 8.801 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 289.42 Mbit/s
95th percentile per-packet one-way delay: 6.010 ms
Loss rate: 0.29%
```

Run 2: Report of LEDBAT — Data Link

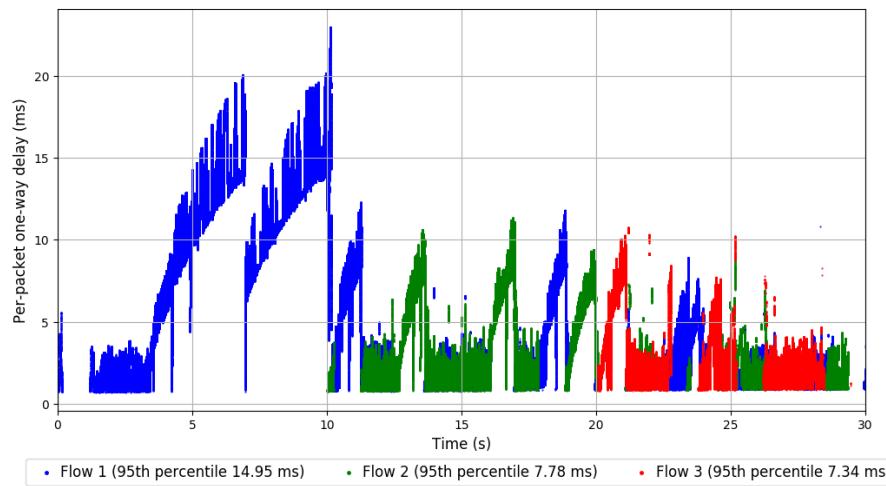
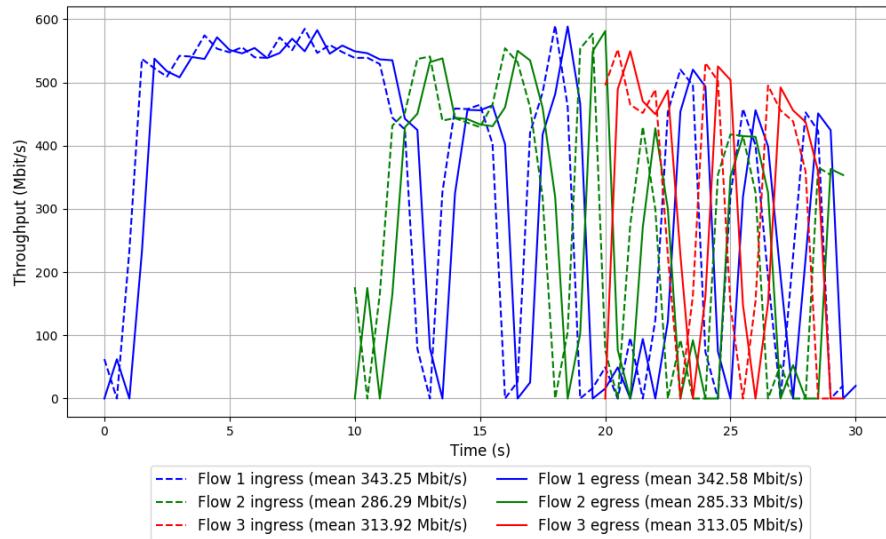


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-03 01:13:30
End at: 2019-01-03 01:14:00
Local clock offset: -2.993 ms
Remote clock offset: 3.43 ms

# Below is generated by plot.py at 2019-01-03 02:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 625.08 Mbit/s
95th percentile per-packet one-way delay: 13.656 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 342.58 Mbit/s
95th percentile per-packet one-way delay: 14.951 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 285.33 Mbit/s
95th percentile per-packet one-way delay: 7.775 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 313.05 Mbit/s
95th percentile per-packet one-way delay: 7.344 ms
Loss rate: 0.27%
```

Run 3: Report of LEDBAT — Data Link

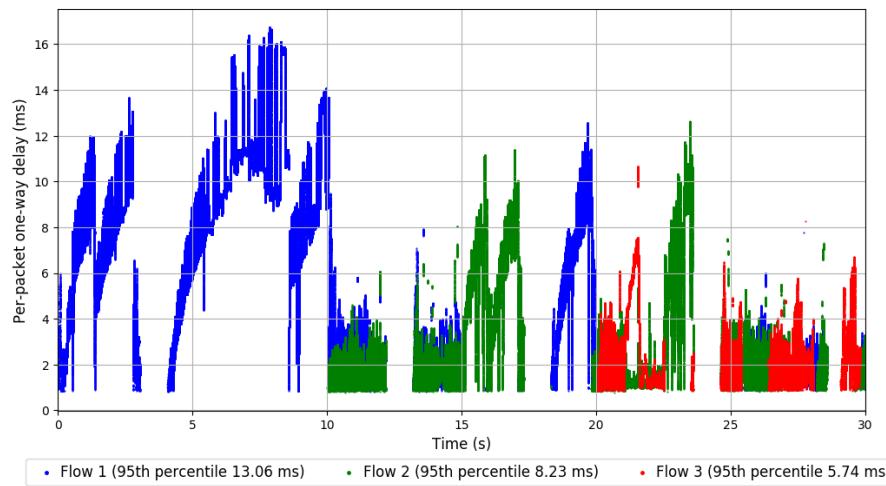
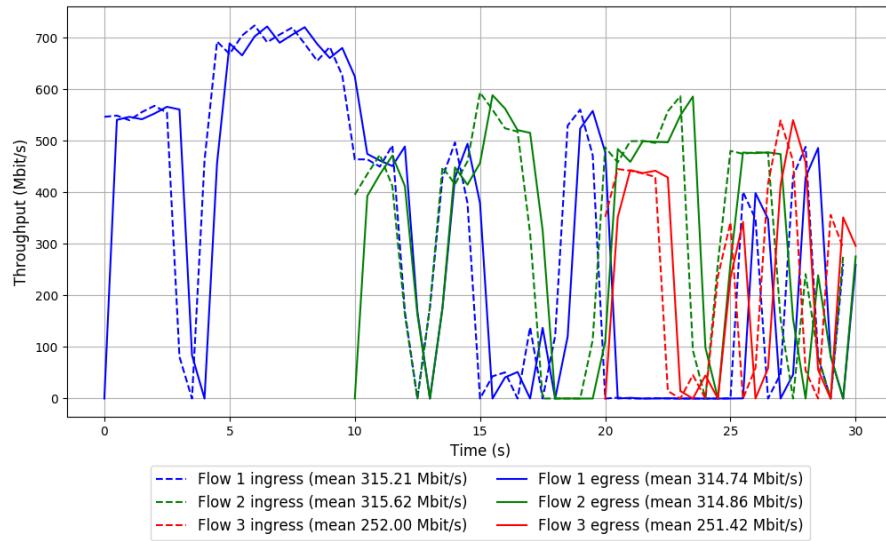


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-03 01:40:44
End at: 2019-01-03 01:41:15
Local clock offset: -0.435 ms
Remote clock offset: -1.357 ms

# Below is generated by plot.py at 2019-01-03 03:02:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 606.40 Mbit/s
95th percentile per-packet one-way delay: 11.319 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 314.74 Mbit/s
95th percentile per-packet one-way delay: 13.065 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 314.86 Mbit/s
95th percentile per-packet one-way delay: 8.226 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 251.42 Mbit/s
95th percentile per-packet one-way delay: 5.743 ms
Loss rate: 0.23%
```

Run 4: Report of LEDBAT — Data Link

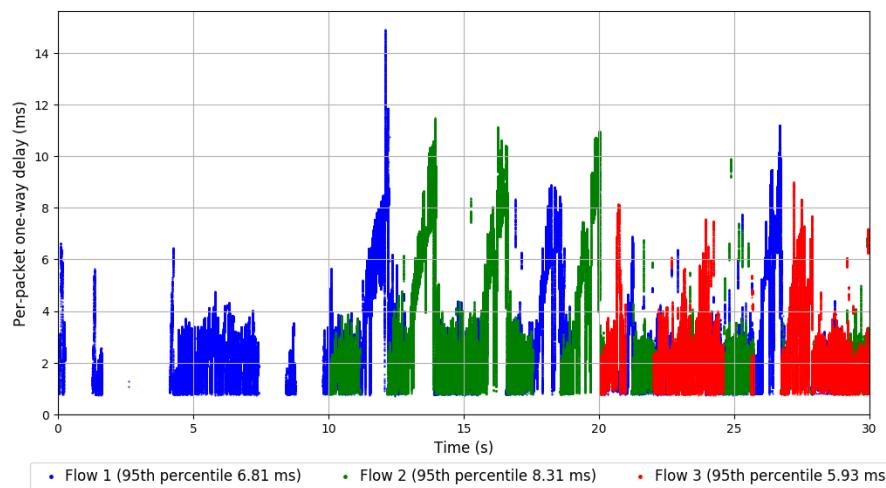
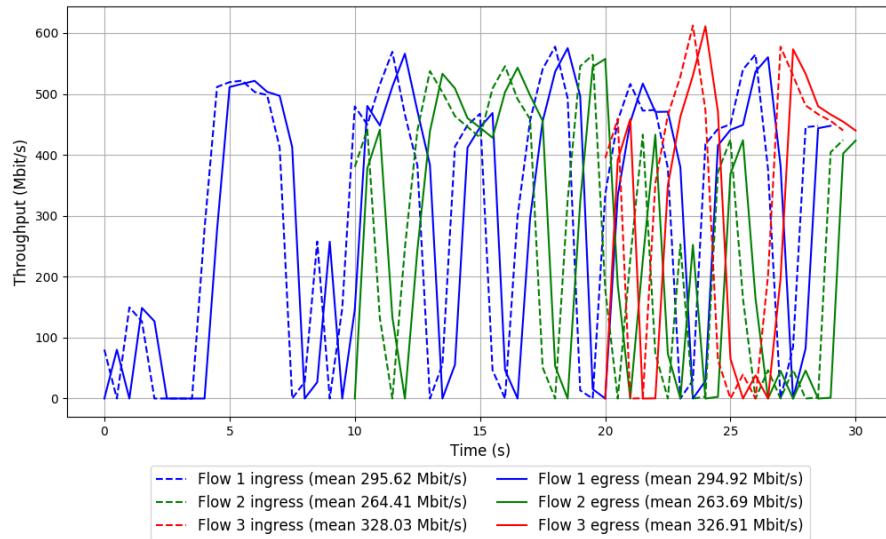


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-03 02:07:44
End at: 2019-01-03 02:08:14
Local clock offset: 0.028 ms
Remote clock offset: -0.667 ms

# Below is generated by plot.py at 2019-01-03 03:02:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.47 Mbit/s
95th percentile per-packet one-way delay: 7.190 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 294.92 Mbit/s
95th percentile per-packet one-way delay: 6.807 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 263.69 Mbit/s
95th percentile per-packet one-way delay: 8.314 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 326.91 Mbit/s
95th percentile per-packet one-way delay: 5.934 ms
Loss rate: 0.33%
```

Run 5: Report of LEDBAT — Data Link

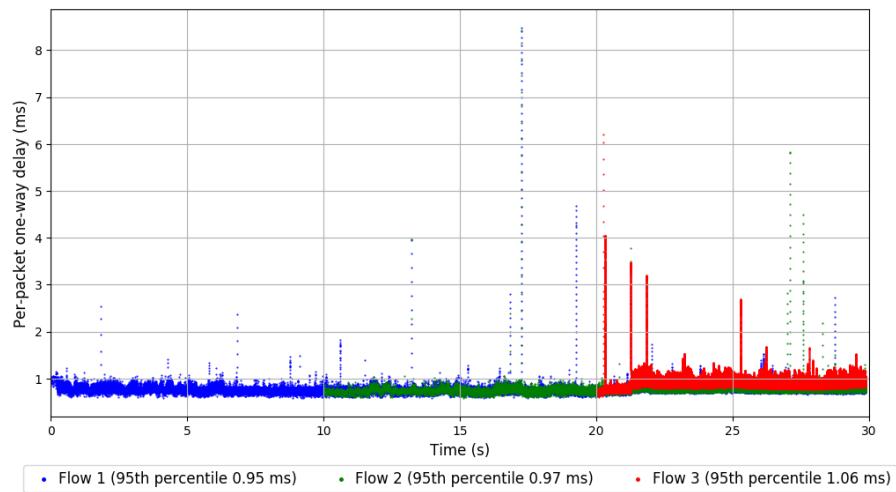
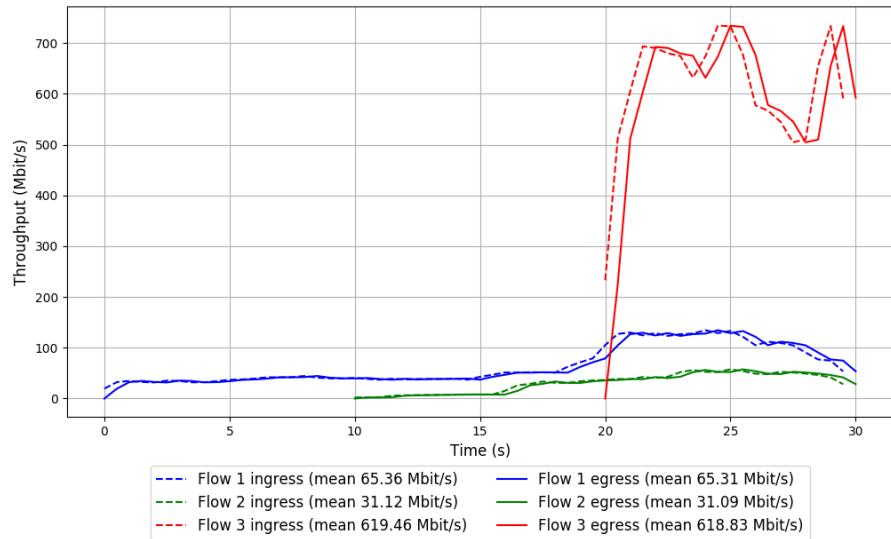


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-03 00:24:03
End at: 2019-01-03 00:24:33
Local clock offset: 0.598 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-01-03 03:02:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.31 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 65.31 Mbit/s
95th percentile per-packet one-way delay: 0.951 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 0.972 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 618.83 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.10%
```

Run 1: Report of PCC-Allegro — Data Link

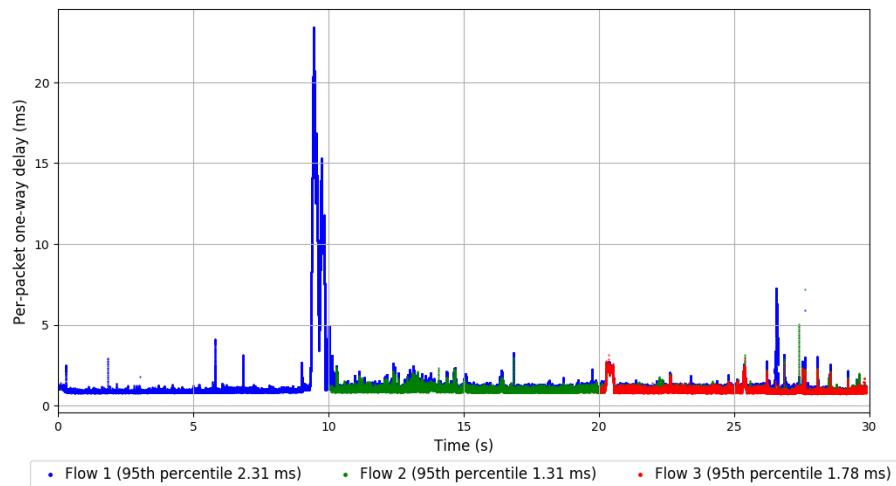
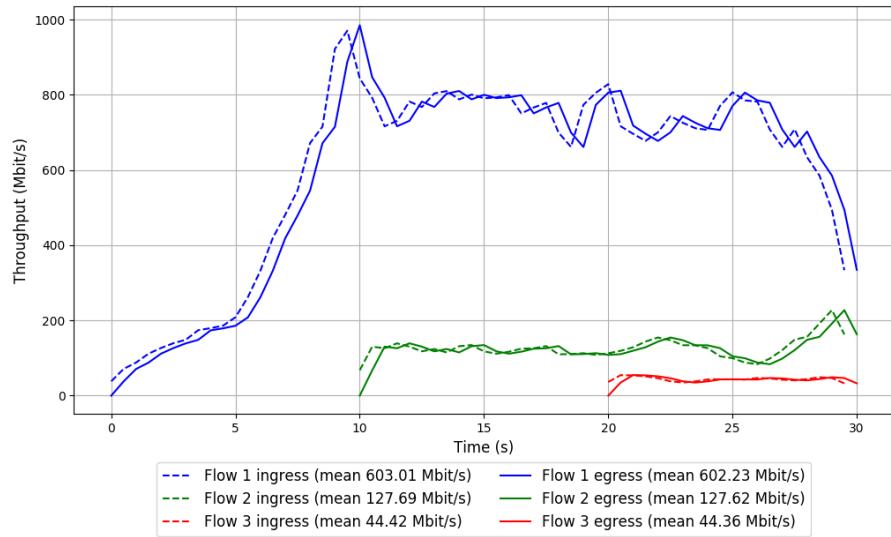


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-03 00:50:56
End at: 2019-01-03 00:51:26
Local clock offset: 0.379 ms
Remote clock offset: 2.581 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 701.70 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 602.23 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 127.62 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 1.783 ms
Loss rate: 0.15%
```

Run 2: Report of PCC-Allegro — Data Link

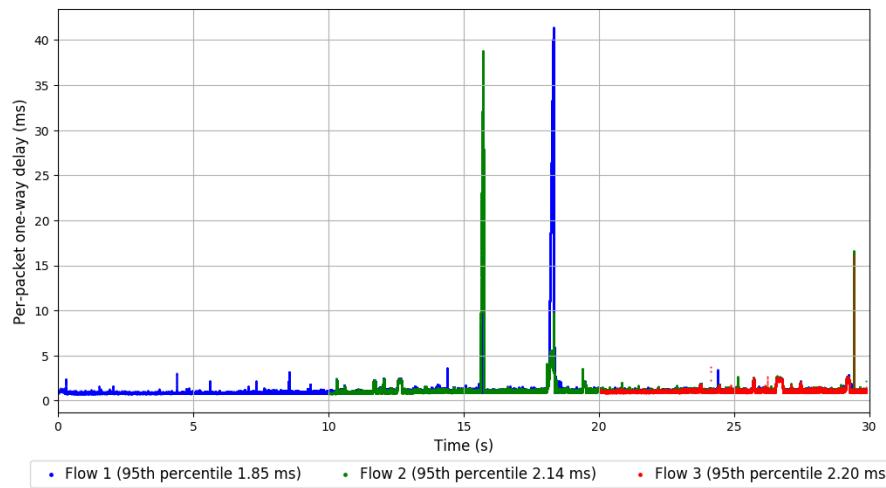
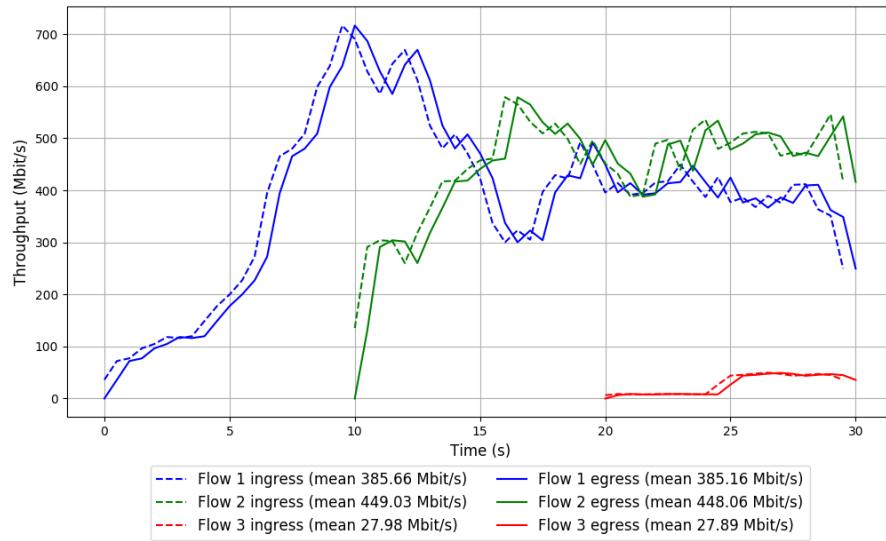


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-03 01:18:04
End at: 2019-01-03 01:18:34
Local clock offset: -3.261 ms
Remote clock offset: 1.752 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 692.33 Mbit/s
95th percentile per-packet one-way delay: 1.992 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 385.16 Mbit/s
95th percentile per-packet one-way delay: 1.848 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 448.06 Mbit/s
95th percentile per-packet one-way delay: 2.142 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.33%
```

Run 3: Report of PCC-Allegro — Data Link

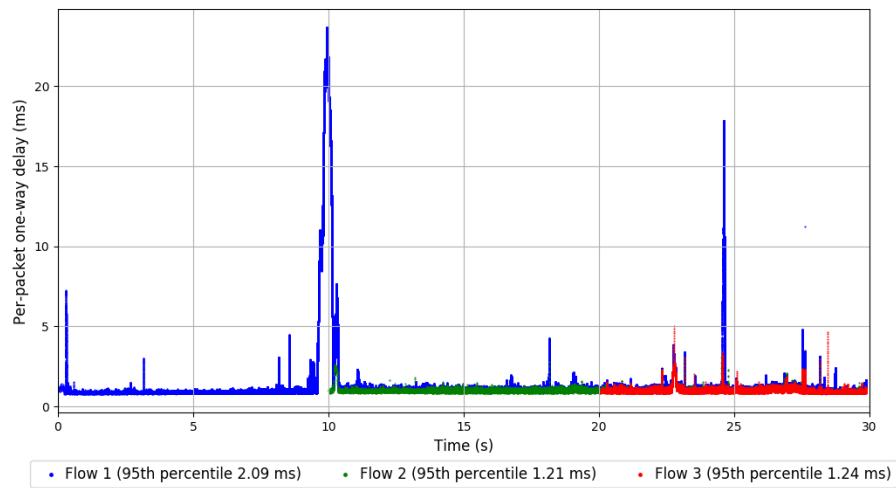
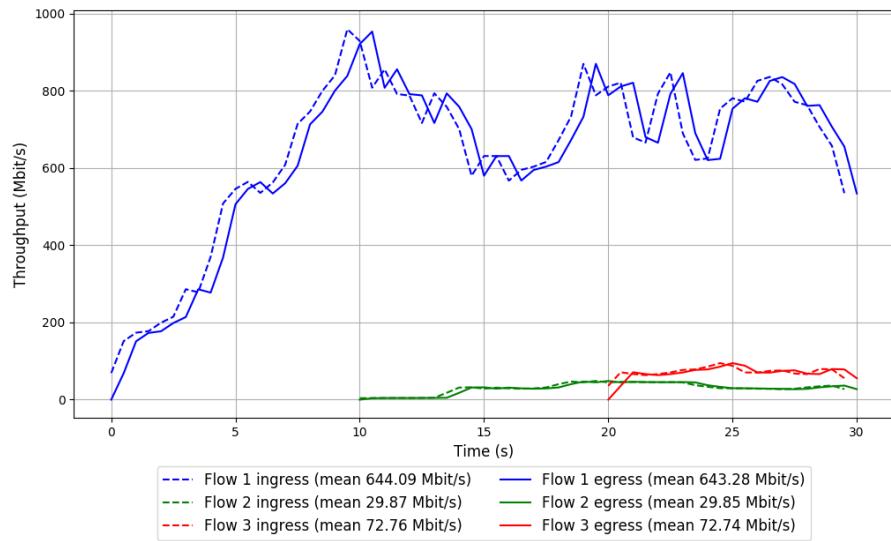


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-03 01:45:14
End at: 2019-01-03 01:45:44
Local clock offset: -0.224 ms
Remote clock offset: -1.705 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.12 Mbit/s
95th percentile per-packet one-way delay: 1.942 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 643.28 Mbit/s
95th percentile per-packet one-way delay: 2.088 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.06%
```

Run 4: Report of PCC-Allegro — Data Link

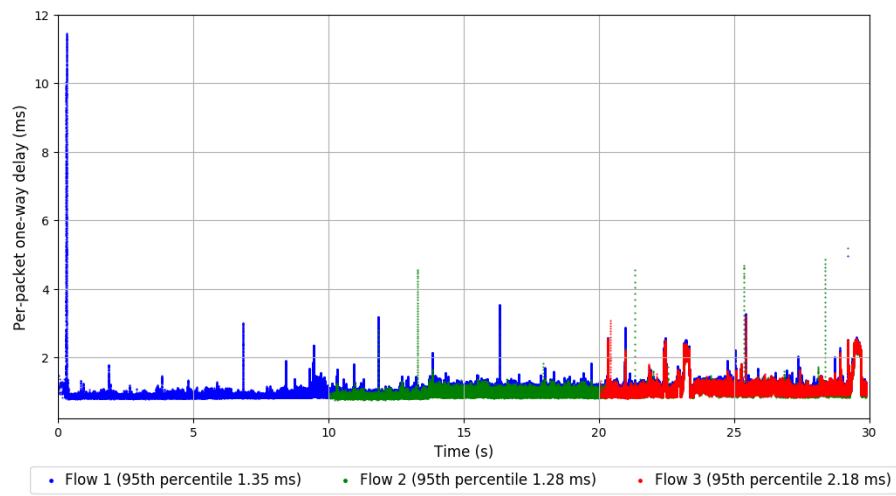
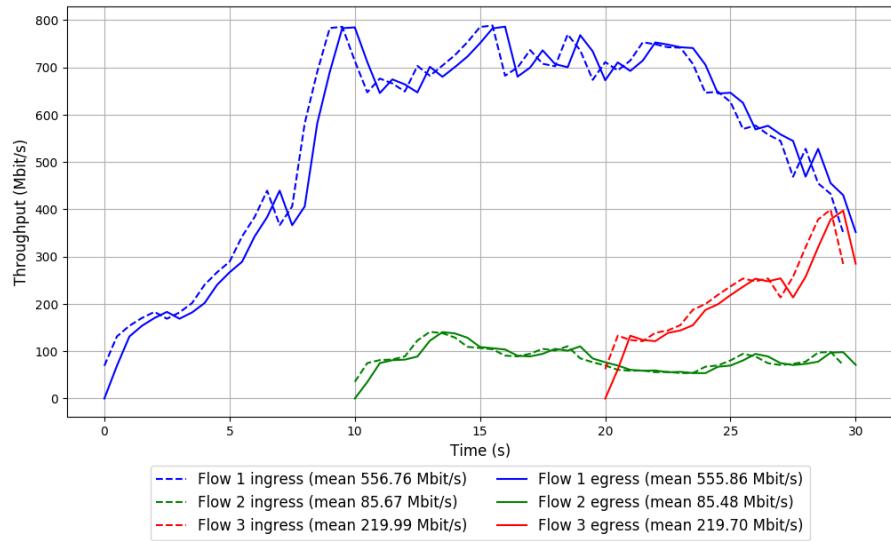


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-03 02:12:15
End at: 2019-01-03 02:12:45
Local clock offset: 0.035 ms
Remote clock offset: -0.707 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 685.07 Mbit/s
95th percentile per-packet one-way delay: 1.408 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 555.86 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 1.283 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 219.70 Mbit/s
95th percentile per-packet one-way delay: 2.182 ms
Loss rate: 0.14%
```

Run 5: Report of PCC-Allegro — Data Link

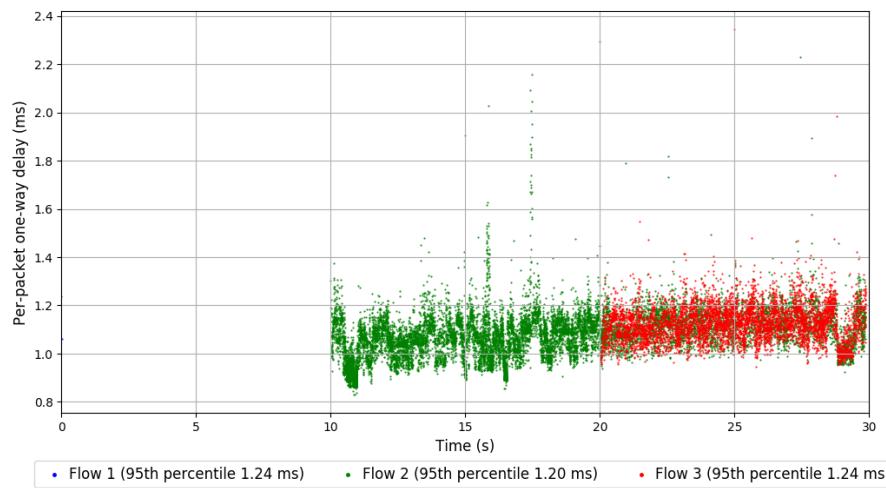
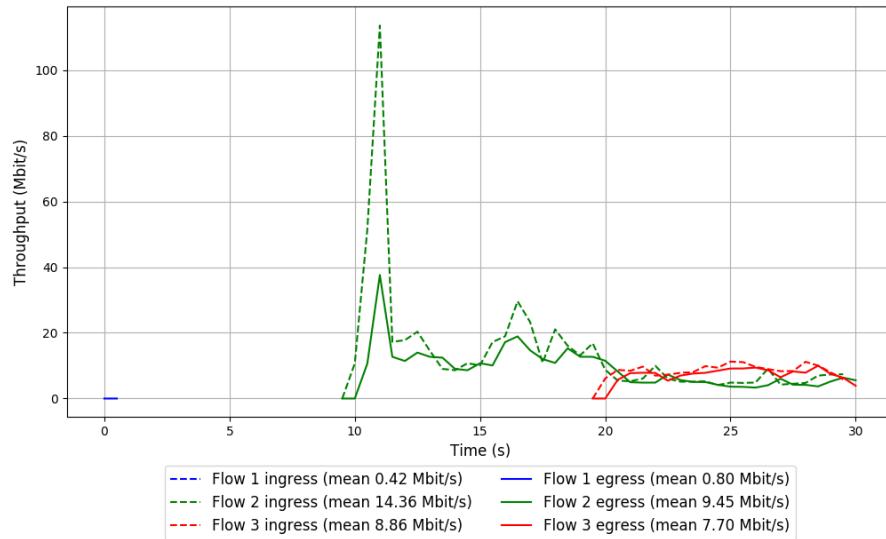


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-03 00:10:53
End at: 2019-01-03 00:11:23
Local clock offset: -0.072 ms
Remote clock offset: 1.271 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 29.25%
-- Flow 1:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 34.21%
-- Flow 3:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 13.06%
```

Run 1: Report of PCC-Expr — Data Link

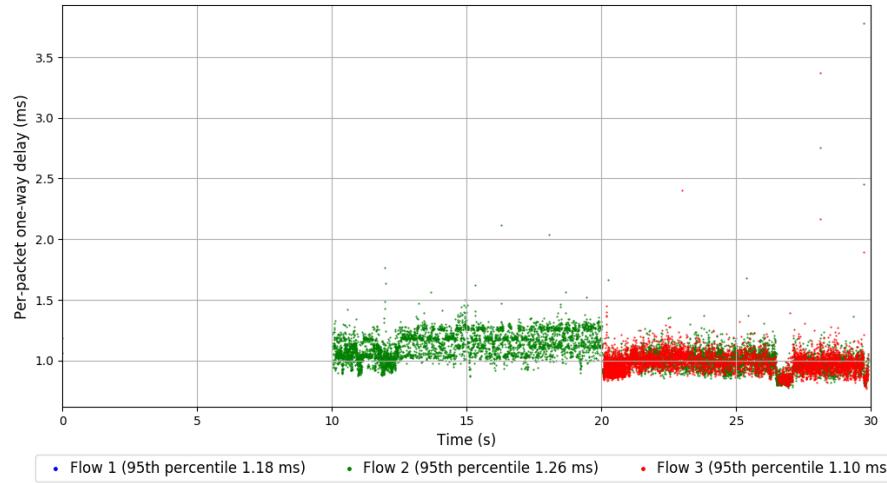
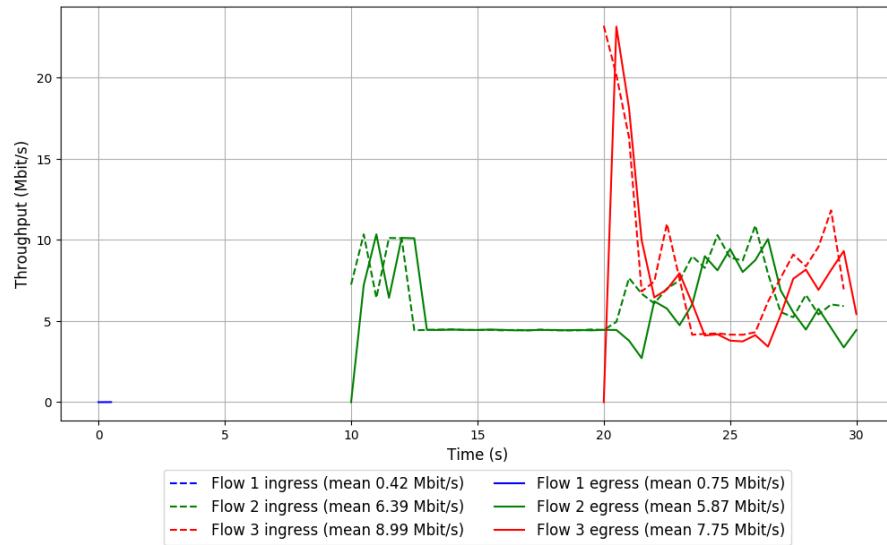


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-03 00:37:56
End at: 2019-01-03 00:38:26
Local clock offset: 0.352 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 1.264 ms
Loss rate: 8.25%
-- Flow 3:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 13.75%
```

Run 2: Report of PCC-Expr — Data Link

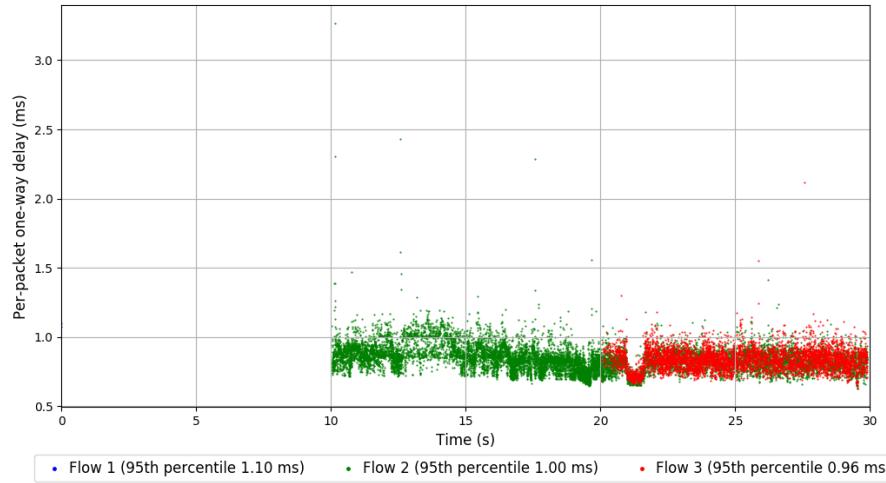
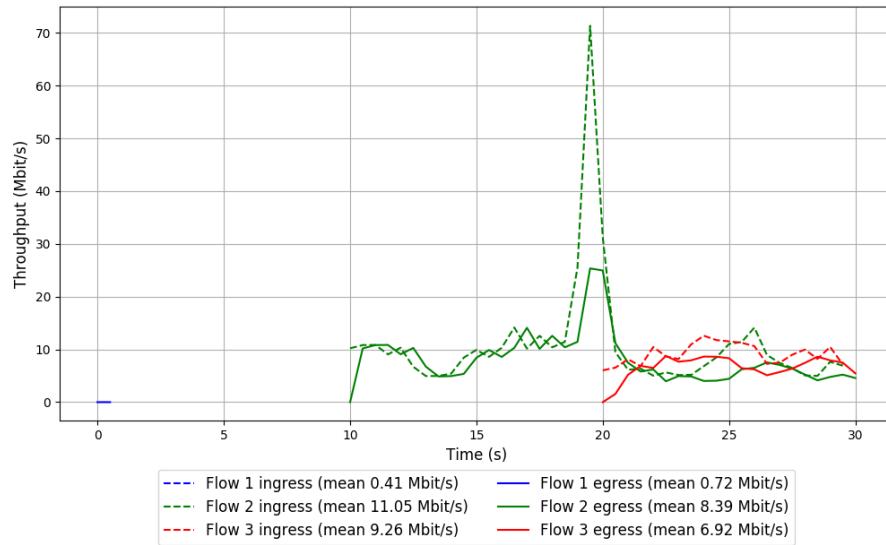


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-03 01:05:01
End at: 2019-01-03 01:05:31
Local clock offset: -2.111 ms
Remote clock offset: 3.694 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 24.43%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 24.08%
-- Flow 3:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 0.963 ms
Loss rate: 25.29%
```

Run 3: Report of PCC-Expr — Data Link

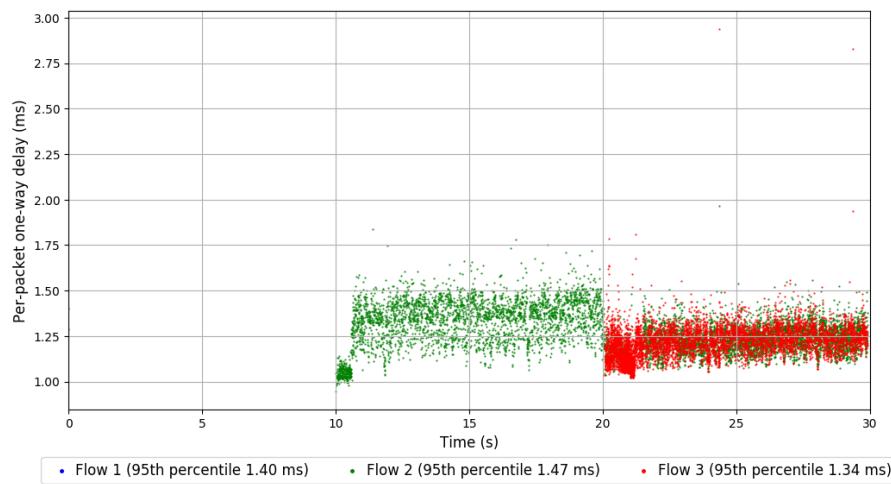
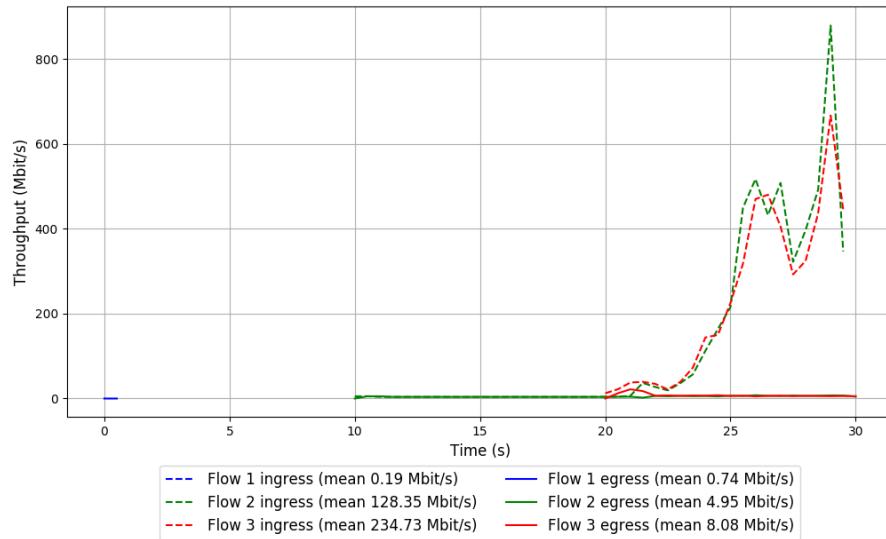


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-03 01:32:12
End at: 2019-01-03 01:32:42
Local clock offset: -1.265 ms
Remote clock offset: -0.634 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 1.438 ms
Loss rate: 96.34%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 96.14%
-- Flow 3:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 96.56%
```

Run 4: Report of PCC-Expr — Data Link

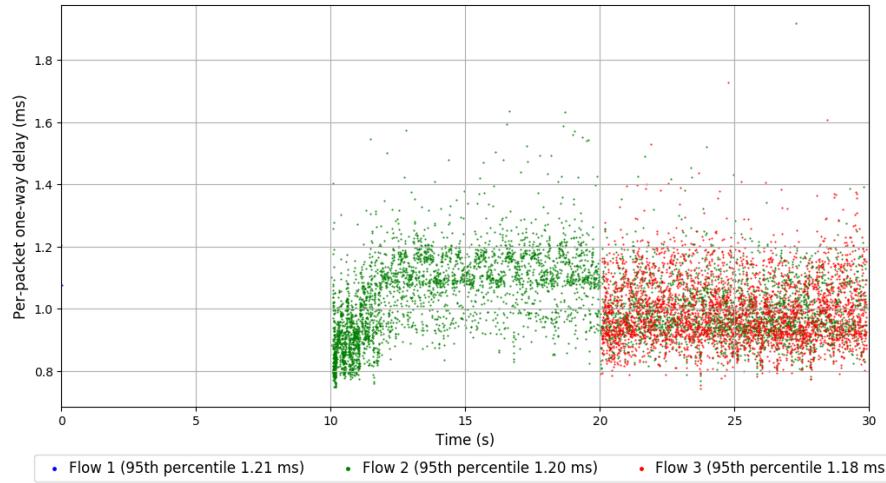
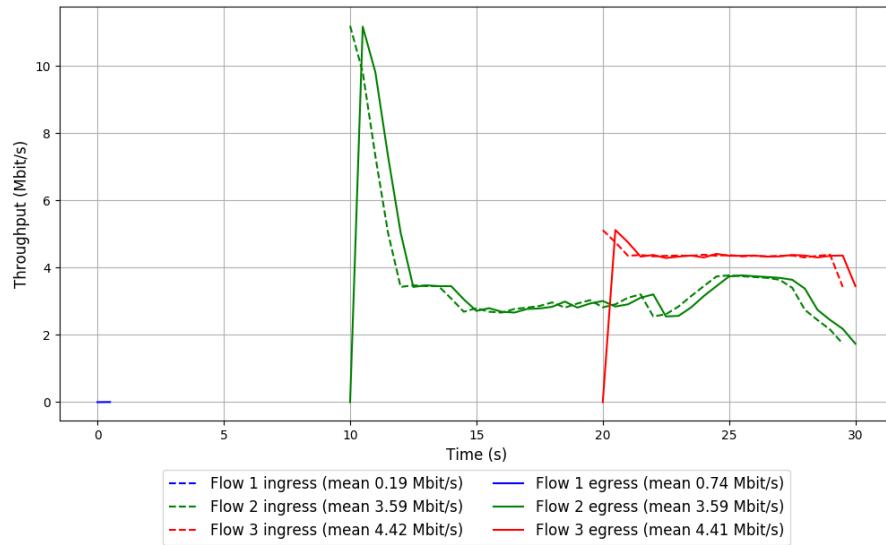


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-03 01:59:20
End at: 2019-01-03 01:59:50
Local clock offset: 0.06 ms
Remote clock offset: -0.73 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.14%
```

Run 5: Report of PCC-Expr — Data Link

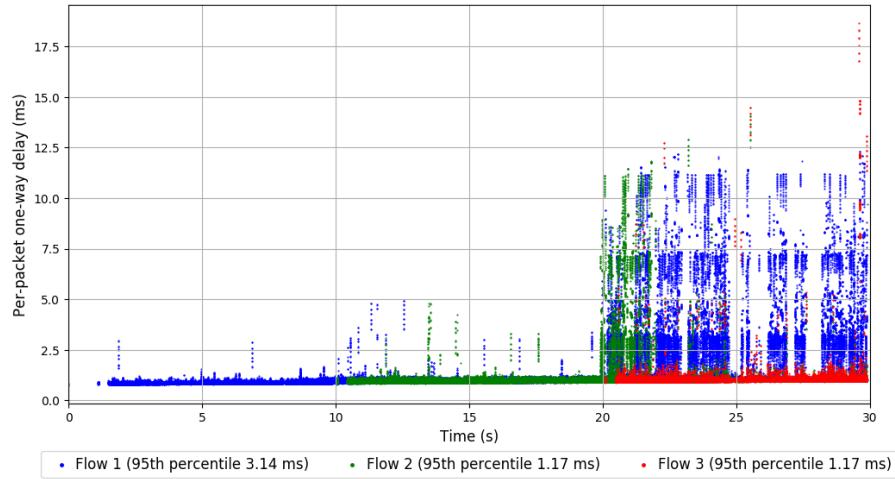
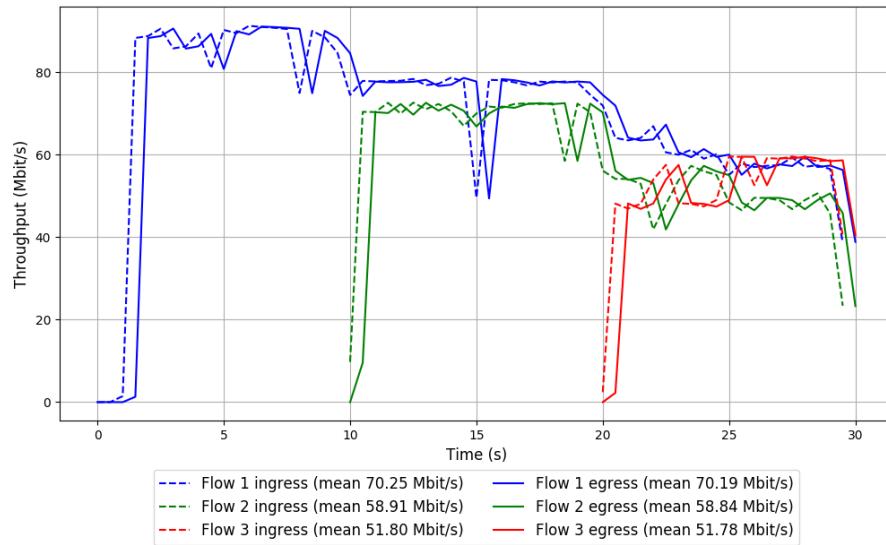


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-03 00:08:14
End at: 2019-01-03 00:08:44
Local clock offset: -0.326 ms
Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.25 Mbit/s
95th percentile per-packet one-way delay: 2.495 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 3.136 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link

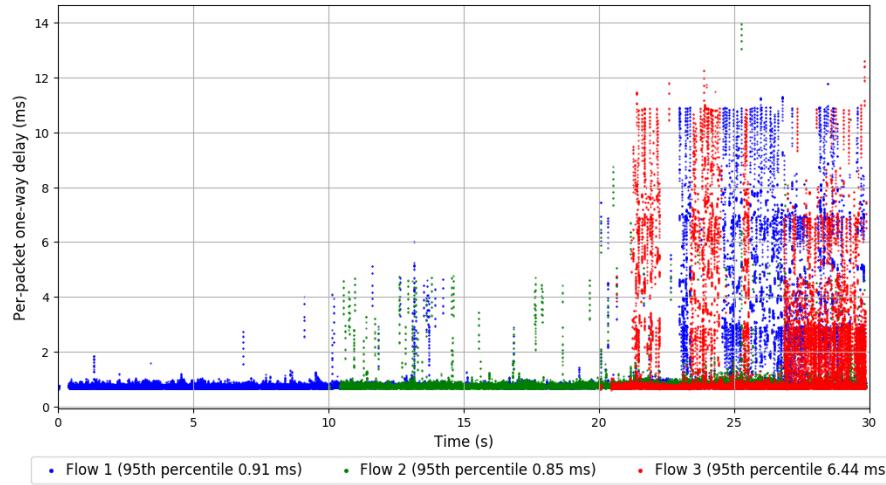
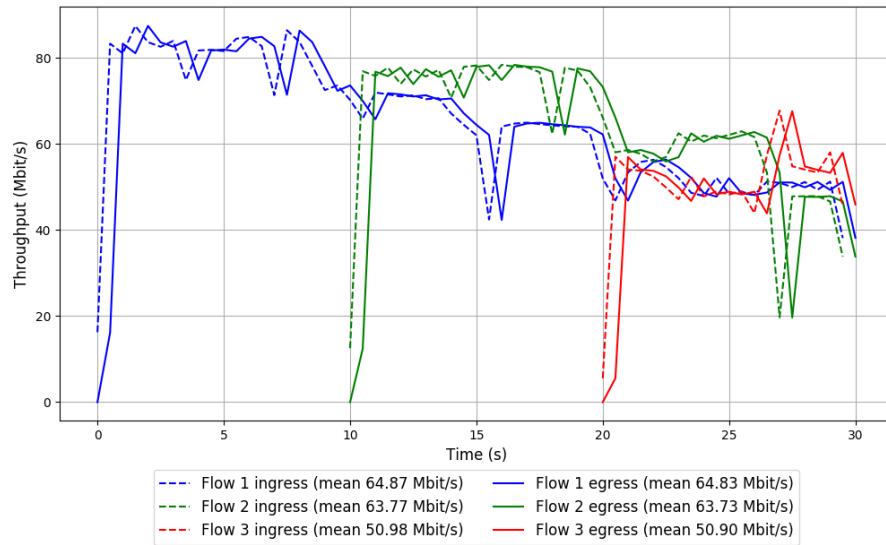


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-03 00:35:19
End at: 2019-01-03 00:35:49
Local clock offset: 0.371 ms
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.96 Mbit/s
95th percentile per-packet one-way delay: 1.723 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 0.914 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 0.850 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 50.90 Mbit/s
95th percentile per-packet one-way delay: 6.437 ms
Loss rate: 0.09%
```

Run 2: Report of QUIC Cubic — Data Link

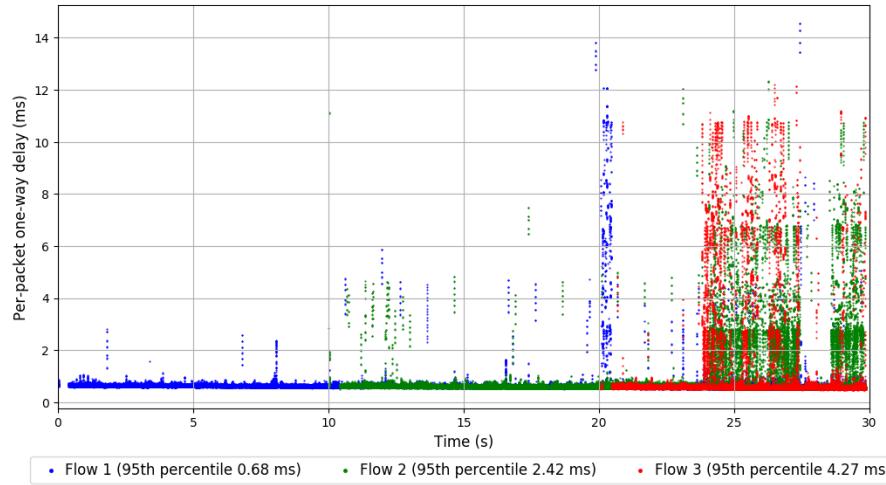
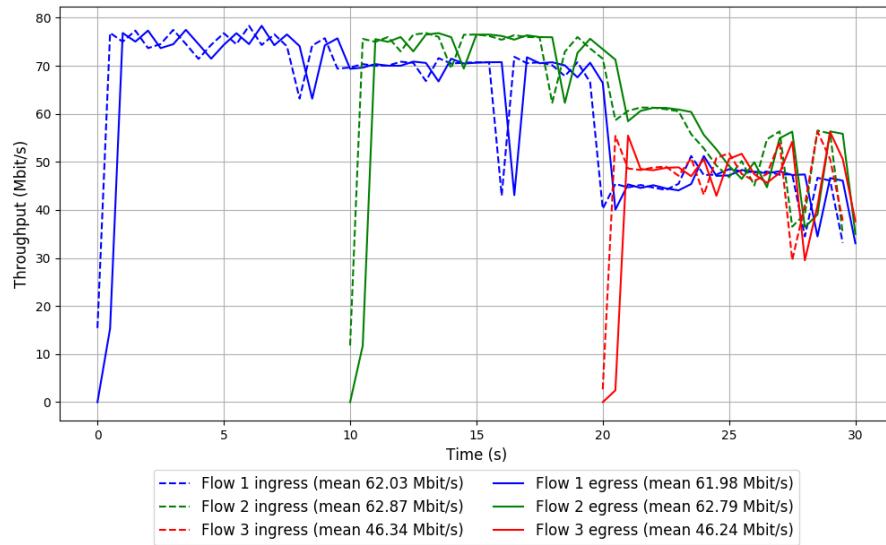


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-03 01:02:25
End at: 2019-01-03 01:02:55
Local clock offset: -1.692 ms
Remote clock offset: 3.471 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.88 Mbit/s
95th percentile per-packet one-way delay: 0.825 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 0.677 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 2.421 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 4.266 ms
Loss rate: 0.22%
```

Run 3: Report of QUIC Cubic — Data Link

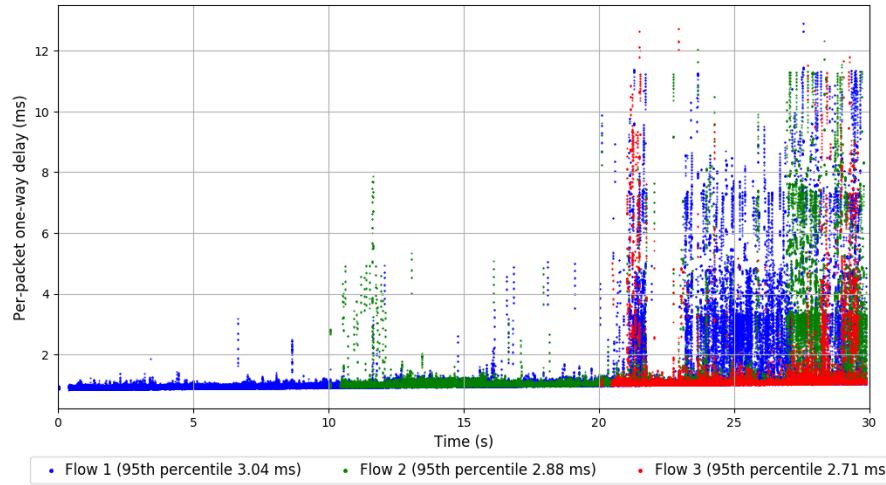
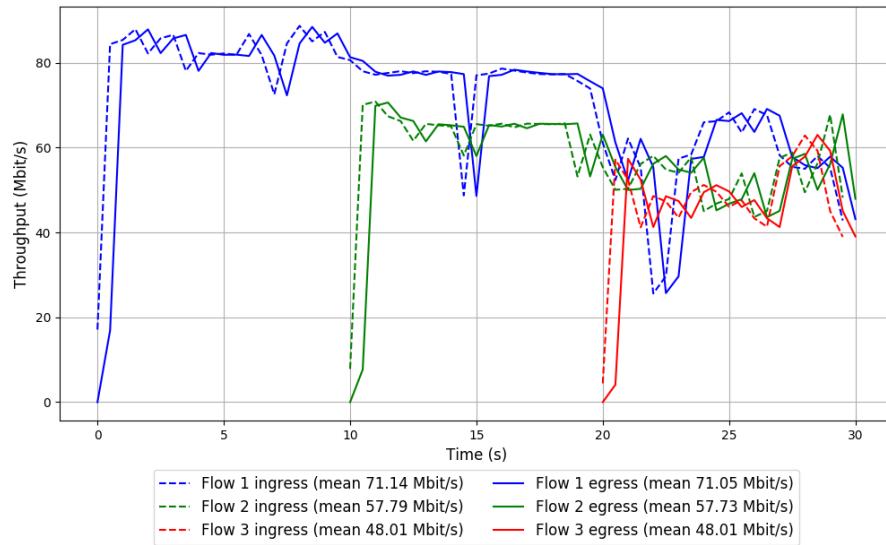


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-03 01:29:30
End at: 2019-01-03 01:30:00
Local clock offset: -1.87 ms
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.17 Mbit/s
95th percentile per-packet one-way delay: 2.967 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 3.044 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 57.73 Mbit/s
95th percentile per-packet one-way delay: 2.885 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 2.706 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

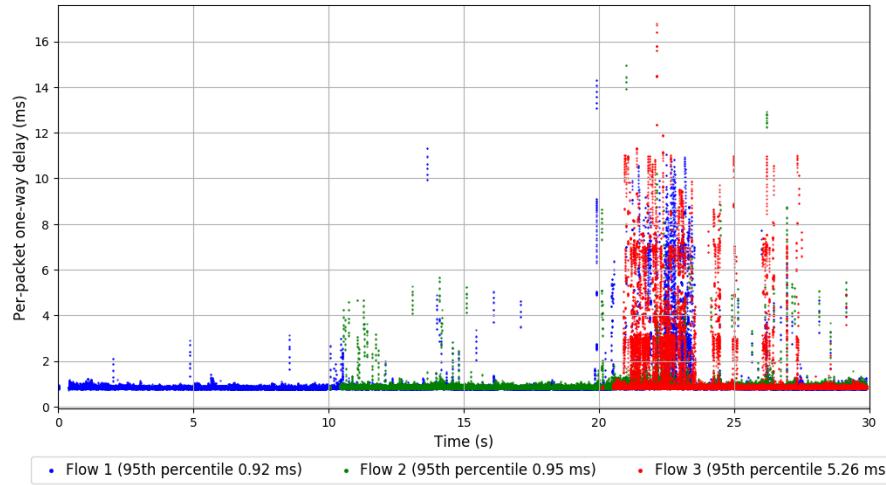
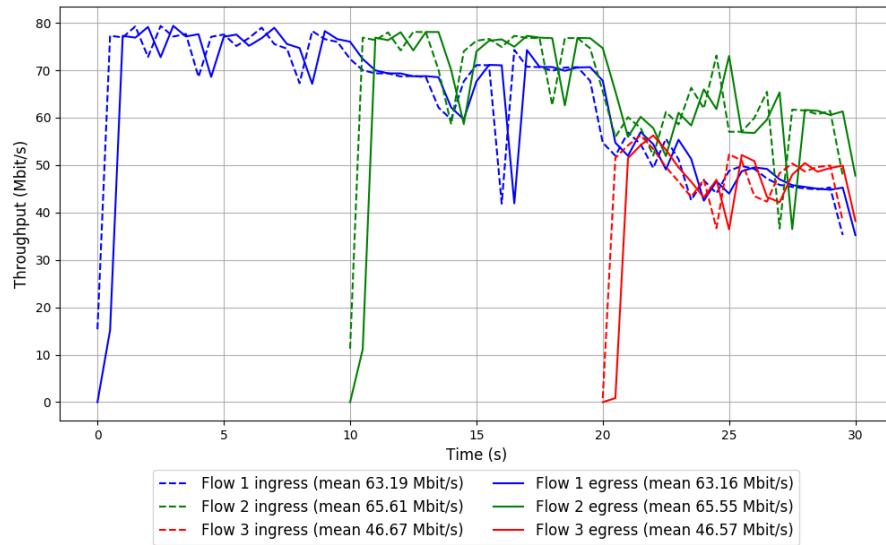


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-03 01:56:38
End at: 2019-01-03 01:57:08
Local clock offset: 0.051 ms
Remote clock offset: -0.767 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 121.97 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 63.16 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 65.55 Mbit/s
95th percentile per-packet one-way delay: 0.947 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 46.57 Mbit/s
95th percentile per-packet one-way delay: 5.264 ms
Loss rate: 0.20%
```

Run 5: Report of QUIC Cubic — Data Link

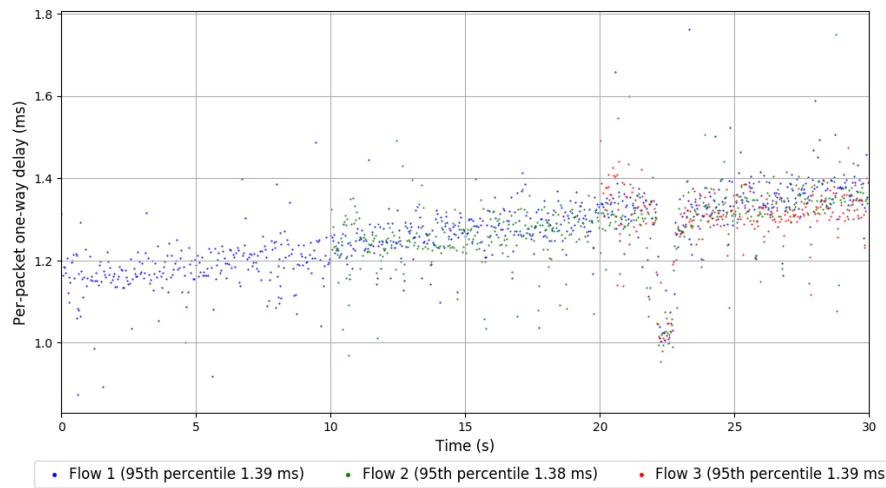
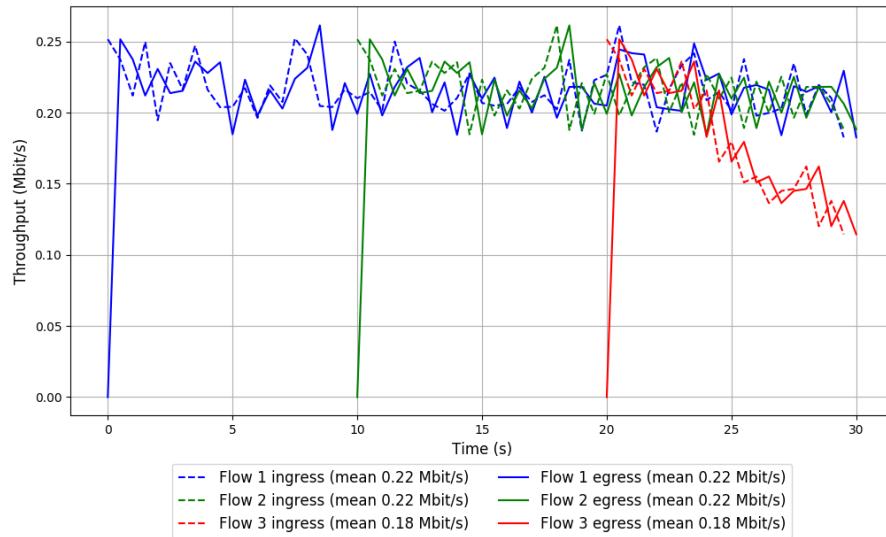


Run 1: Statistics of SCReAM

```
Start at: 2019-01-03 00:07:00
End at: 2019-01-03 00:07:30
Local clock offset: -0.482 ms
Remote clock offset: 2.167 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 1.389 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.391 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 1.394 ms
Loss rate: 0.54%
```

Run 1: Report of SCReAM — Data Link

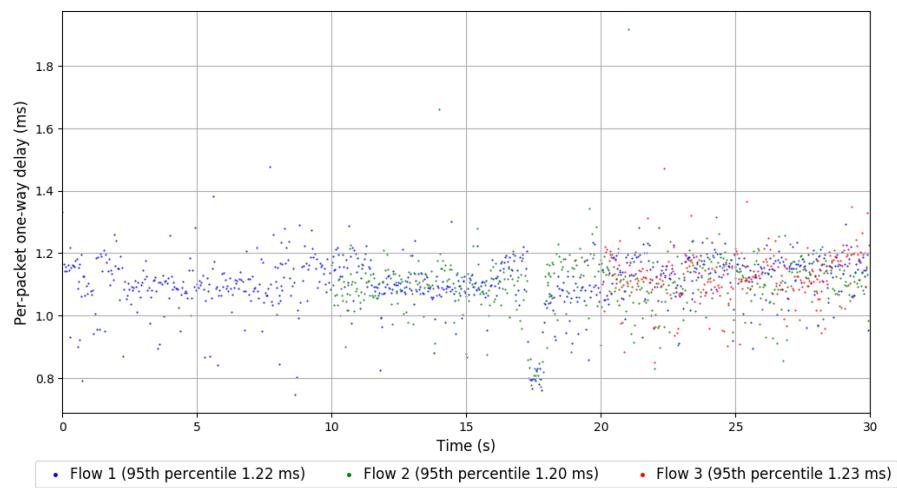
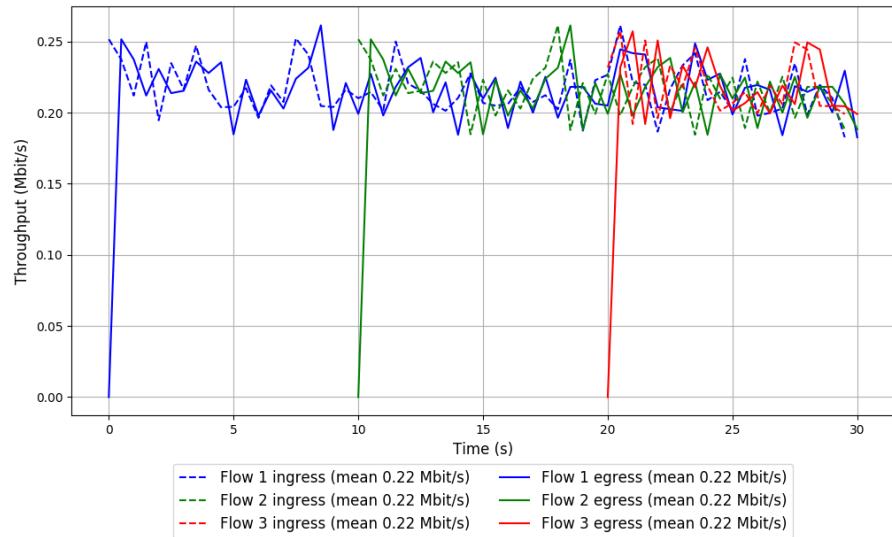


Run 2: Statistics of SCReAM

```
Start at: 2019-01-03 00:34:05
End at: 2019-01-03 00:34:35
Local clock offset: 0.372 ms
Remote clock offset: -0.37 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

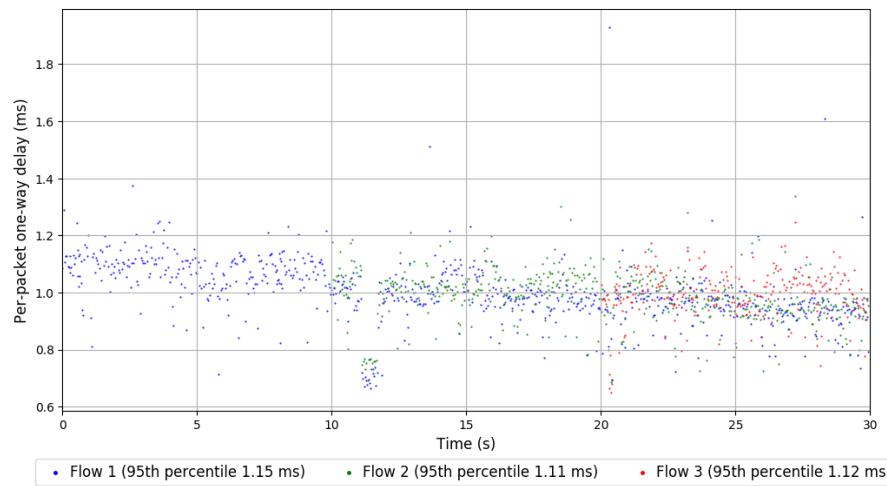
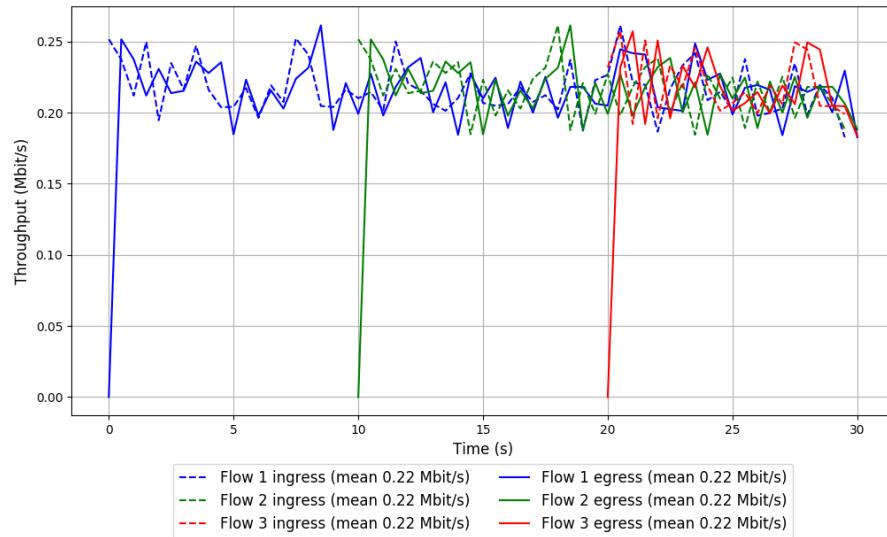


Run 3: Statistics of SCReAM

```
Start at: 2019-01-03 01:01:11
End at: 2019-01-03 01:01:41
Local clock offset: -1.487 ms
Remote clock offset: 3.488 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.35%
```

Run 3: Report of SCReAM — Data Link

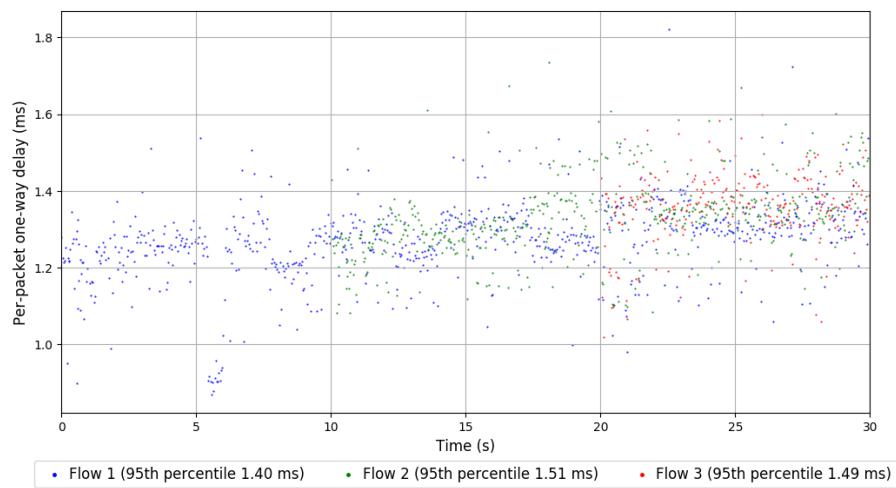
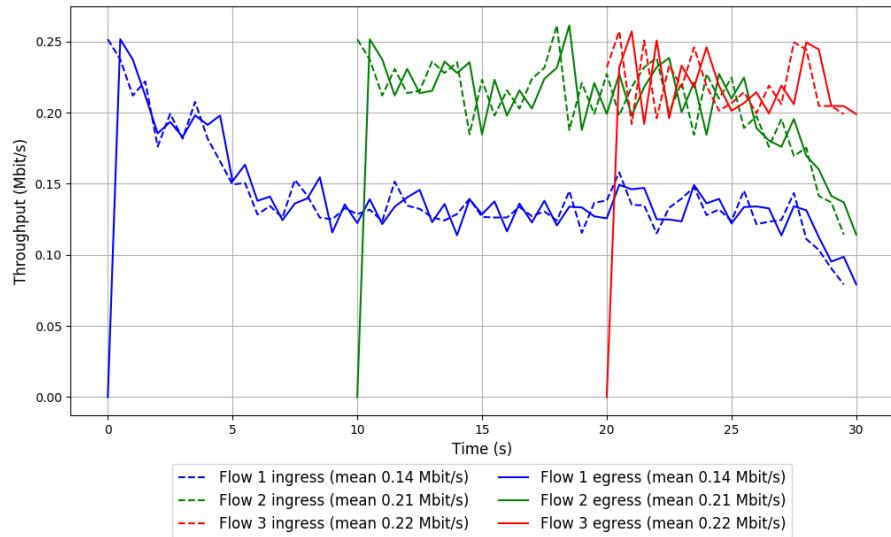


Run 4: Statistics of SCReAM

```
Start at: 2019-01-03 01:28:17
End at: 2019-01-03 01:28:47
Local clock offset: -2.192 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 1.479 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 1.404 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 1.507 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.489 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

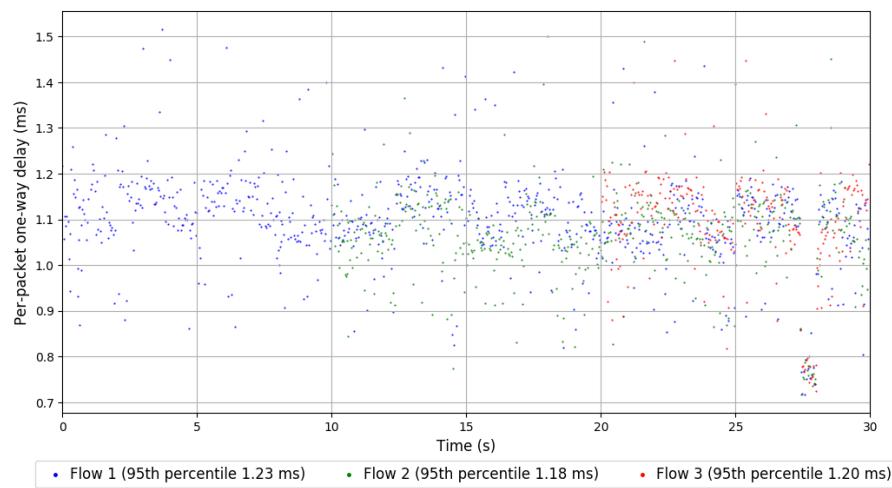
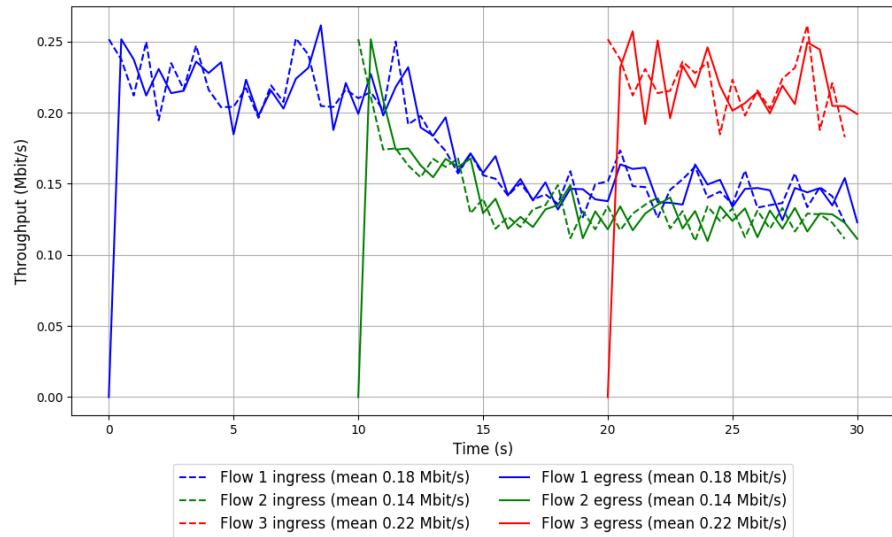


Run 5: Statistics of SCReAM

```
Start at: 2019-01-03 01:55:25
End at: 2019-01-03 01:55:55
Local clock offset: 0.039 ms
Remote clock offset: -0.839 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

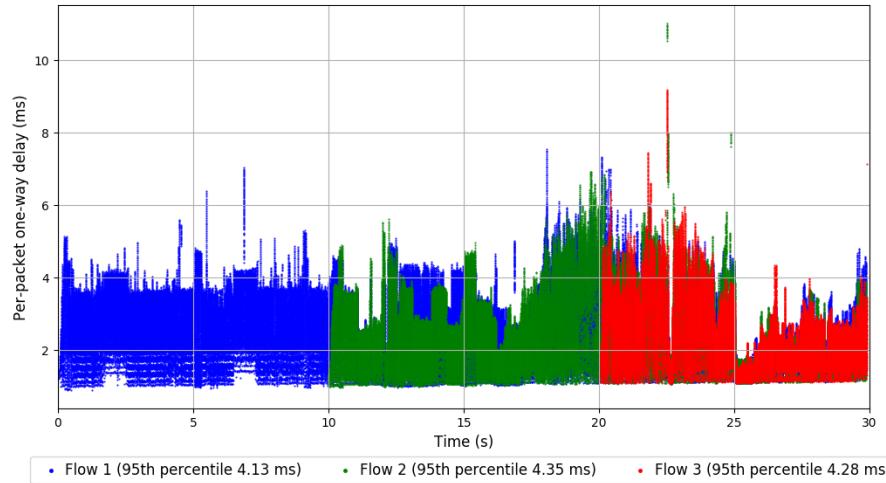
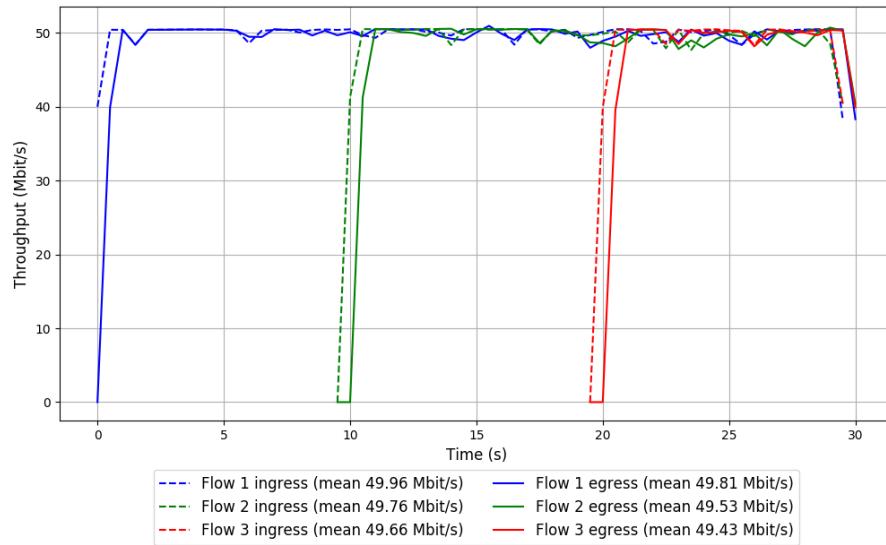


Run 1: Statistics of Sprout

```
Start at: 2019-01-03 00:04:27
End at: 2019-01-03 00:04:57
Local clock offset: -0.848 ms
Remote clock offset: 3.075 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.14 Mbit/s
95th percentile per-packet one-way delay: 4.222 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 4.134 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 4.347 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 4.278 ms
Loss rate: 0.38%
```

Run 1: Report of Sprout — Data Link

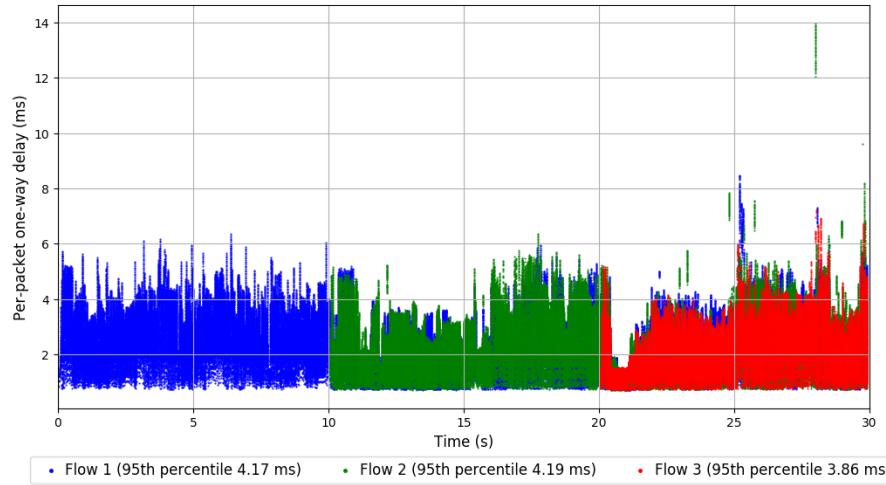
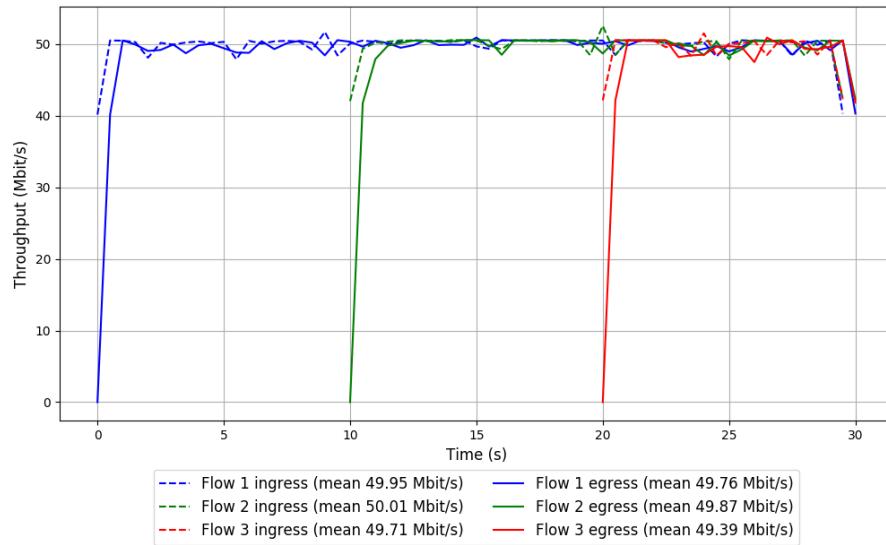


Run 2: Statistics of Sprout

```
Start at: 2019-01-03 00:31:32
End at: 2019-01-03 00:32:02
Local clock offset: 0.415 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.26 Mbit/s
95th percentile per-packet one-way delay: 4.131 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 49.76 Mbit/s
95th percentile per-packet one-way delay: 4.166 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 3.863 ms
Loss rate: 0.61%
```

Run 2: Report of Sprout — Data Link

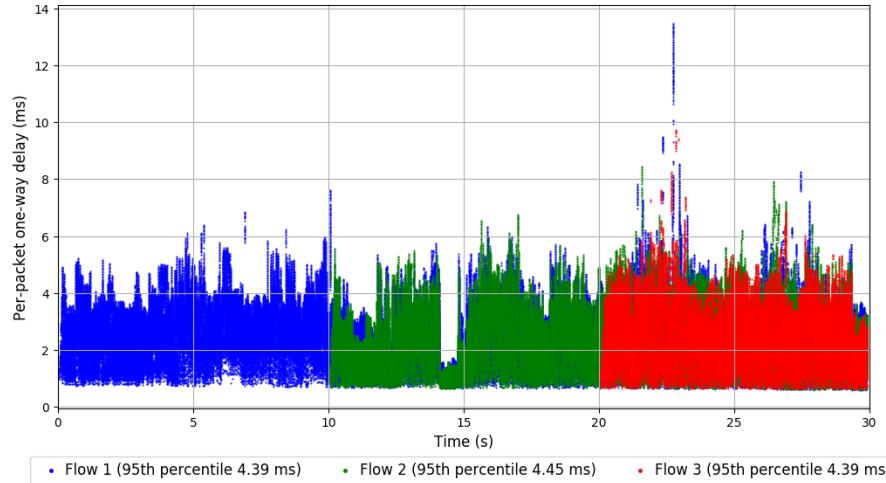
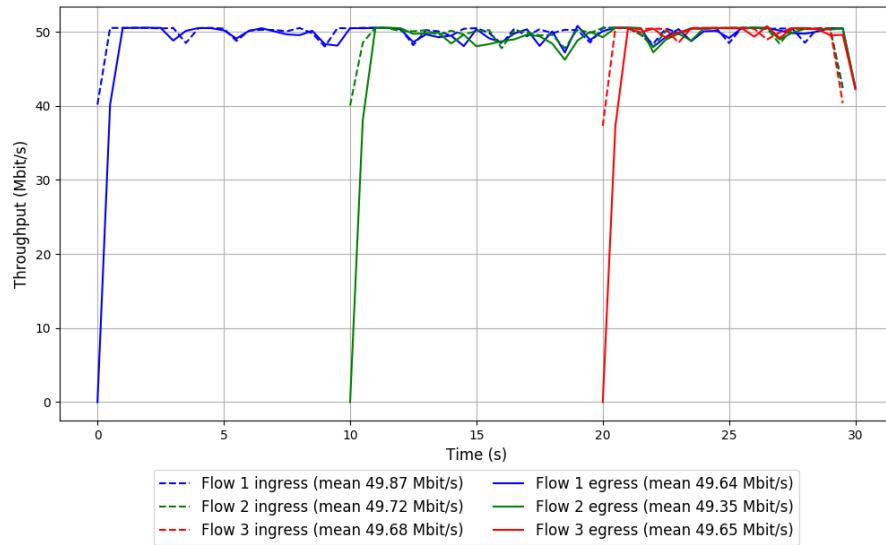


Run 3: Statistics of Sprout

```
Start at: 2019-01-03 00:58:38
End at: 2019-01-03 00:59:08
Local clock offset: -0.93 ms
Remote clock offset: 3.346 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.89 Mbit/s
95th percentile per-packet one-way delay: 4.413 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 49.64 Mbit/s
95th percentile per-packet one-way delay: 4.392 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 4.447 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 49.65 Mbit/s
95th percentile per-packet one-way delay: 4.386 ms
Loss rate: 0.03%
```

Run 3: Report of Sprout — Data Link

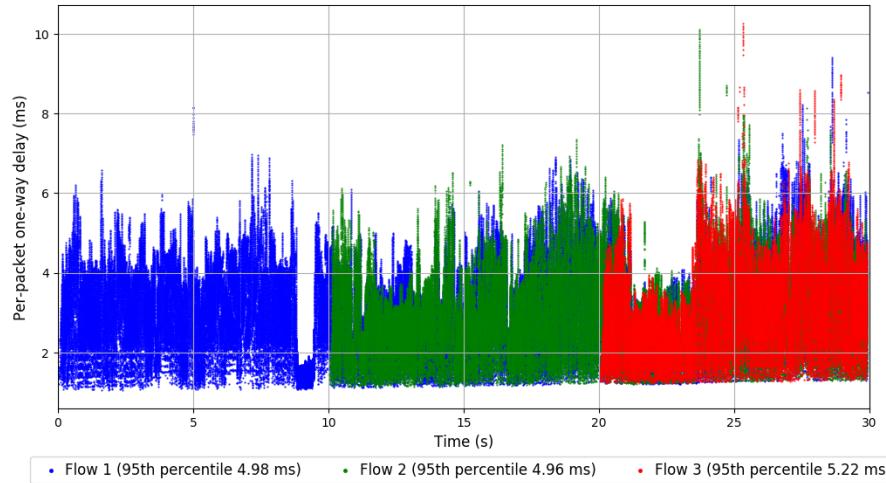
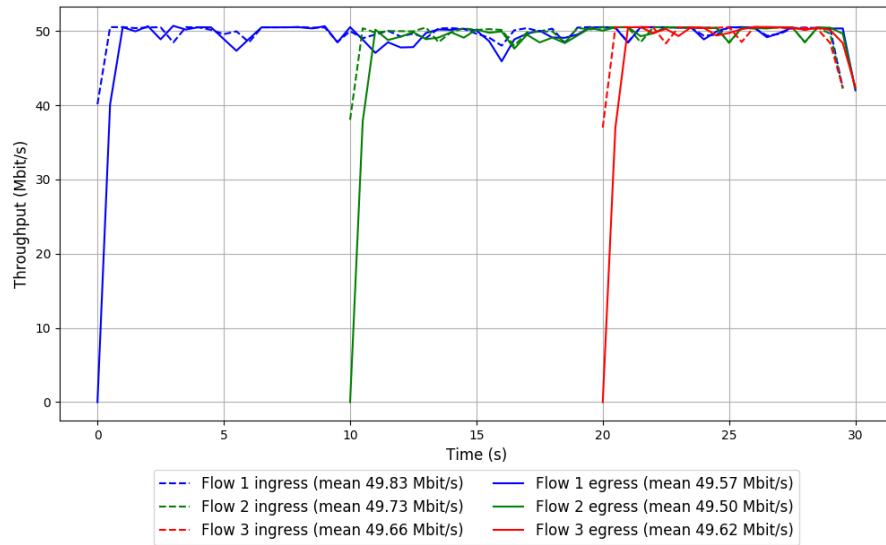


Run 4: Statistics of Sprout

```
Start at: 2019-01-03 01:25:43
End at: 2019-01-03 01:26:13
Local clock offset: -3.116 ms
Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2019-01-03 03:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.88 Mbit/s
95th percentile per-packet one-way delay: 5.019 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 49.57 Mbit/s
95th percentile per-packet one-way delay: 4.980 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 4.956 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 5.220 ms
Loss rate: 0.03%
```

Run 4: Report of Sprout — Data Link

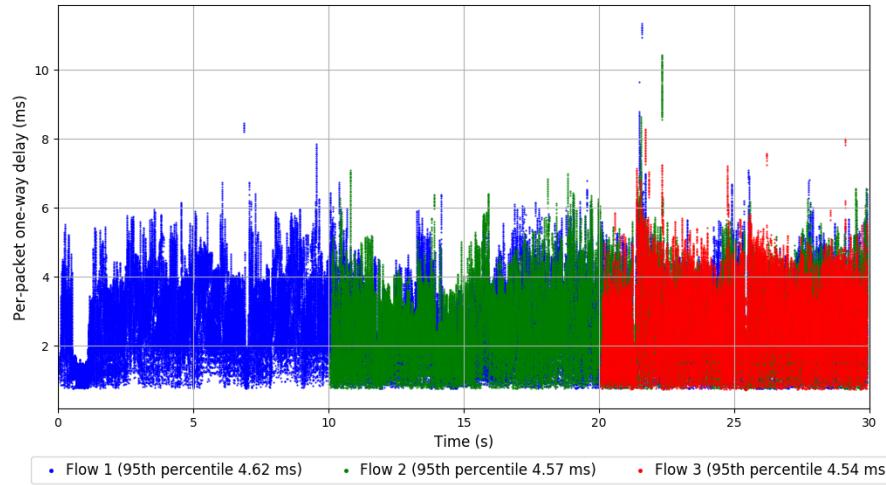
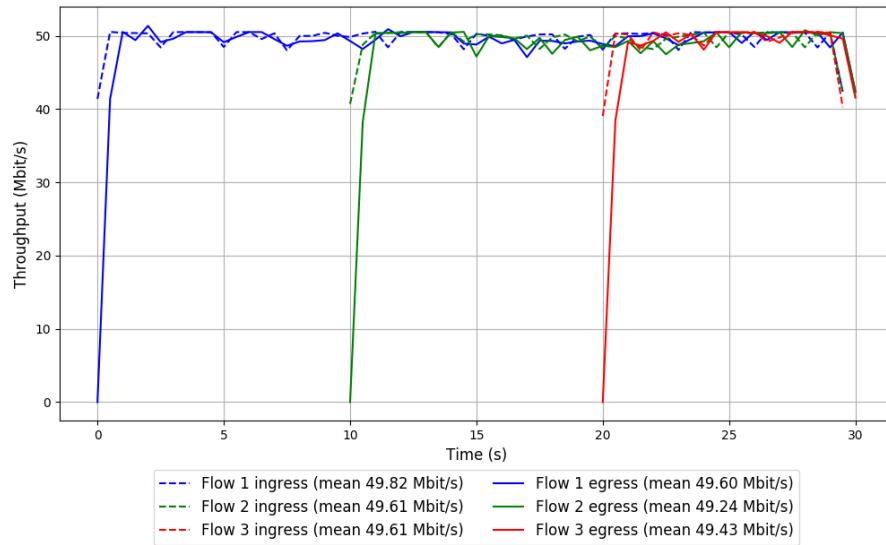


Run 5: Statistics of Sprout

```
Start at: 2019-01-03 01:52:52
End at: 2019-01-03 01:53:22
Local clock offset: 0.029 ms
Remote clock offset: -1.016 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.69 Mbit/s
95th percentile per-packet one-way delay: 4.592 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 4.624 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 4.571 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 4.542 ms
Loss rate: 0.32%
```

Run 5: Report of Sprout — Data Link

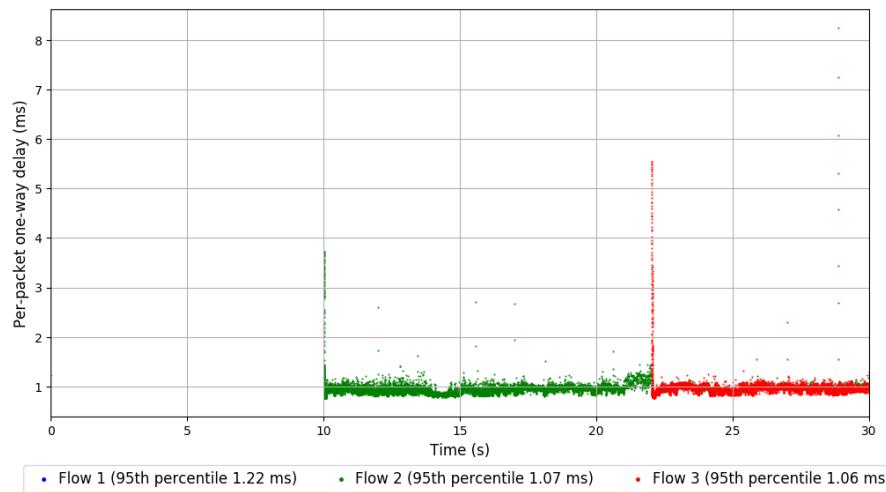
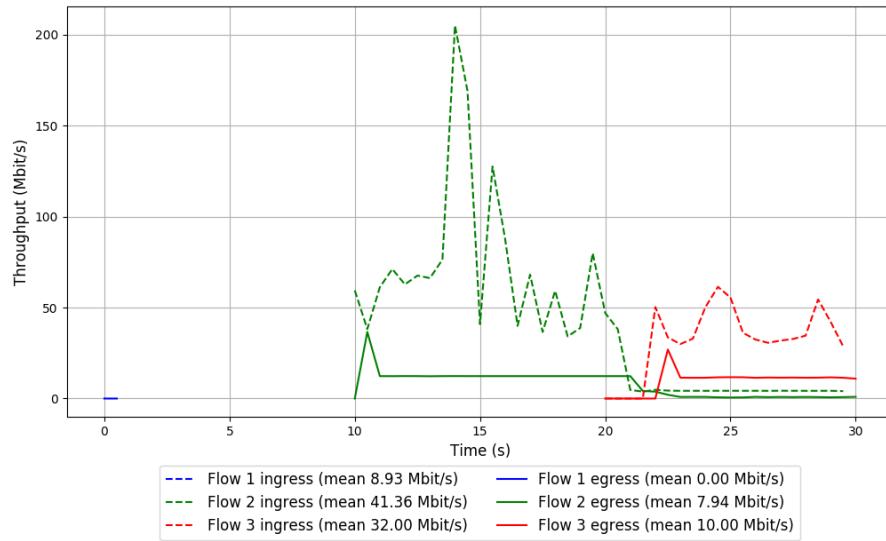


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-03 00:21:08
End at: 2019-01-03 00:21:38
Local clock offset: 0.491 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 77.44%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 80.80%
-- Flow 3:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 68.75%
```

Run 1: Report of TaoVA-100x — Data Link

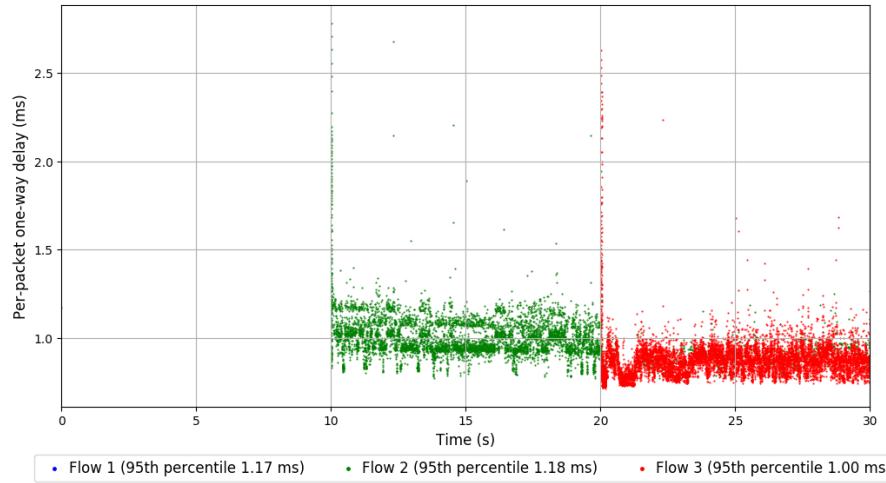
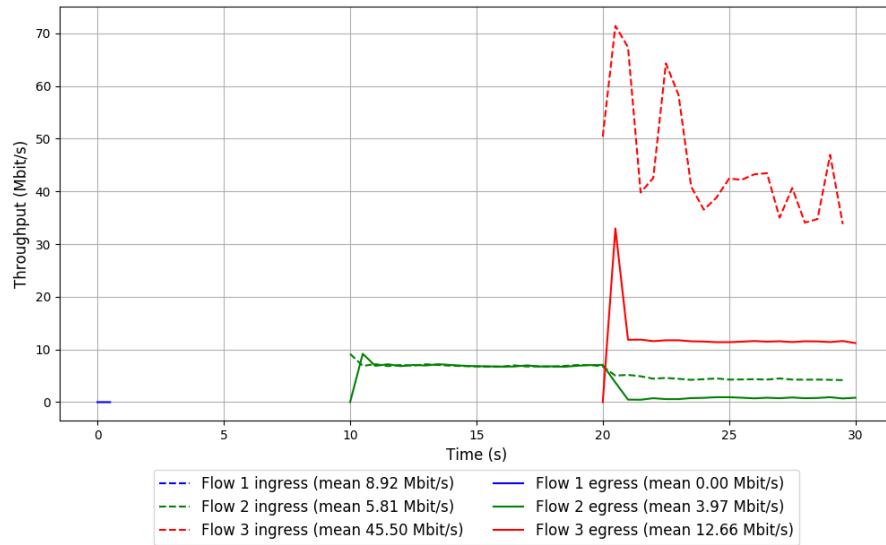


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-03 00:48:02
End at: 2019-01-03 00:48:32
Local clock offset: 0.374 ms
Remote clock offset: 2.124 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 63.91%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 31.61%
-- Flow 3:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 0.997 ms
Loss rate: 72.17%
```

Run 2: Report of TaoVA-100x — Data Link

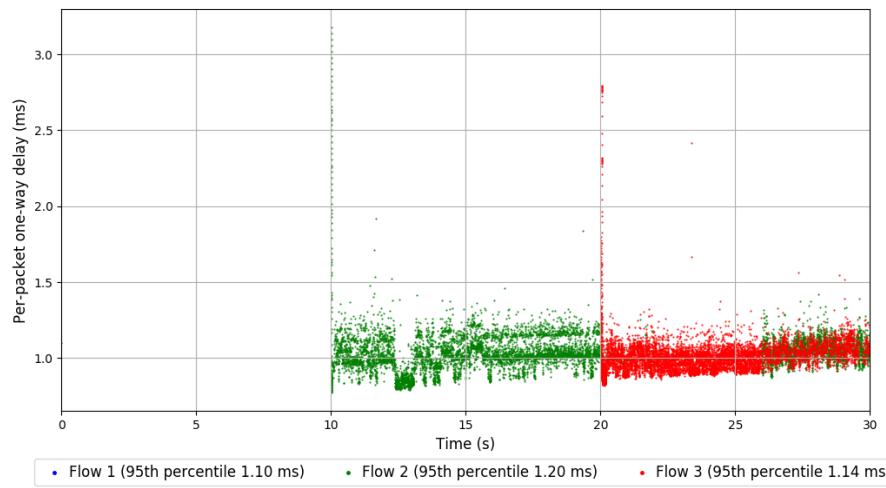
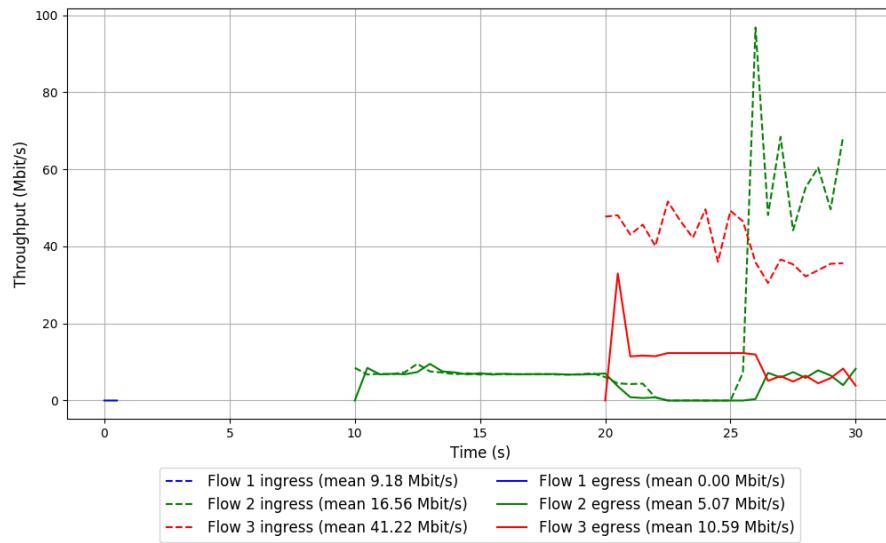


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-03 01:15:10
End at: 2019-01-03 01:15:40
Local clock offset: -3.082 ms
Remote clock offset: 2.736 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 72.13%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 69.41%
-- Flow 3:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 74.32%
```

Run 3: Report of TaoVA-100x — Data Link

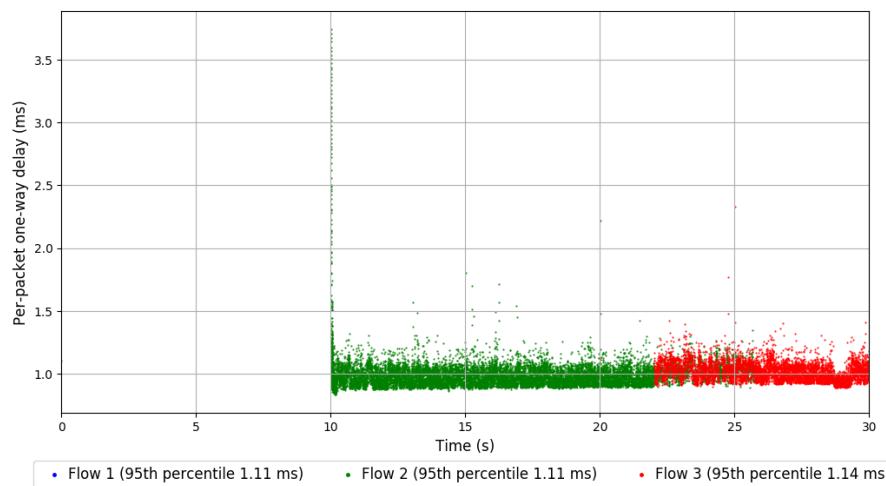
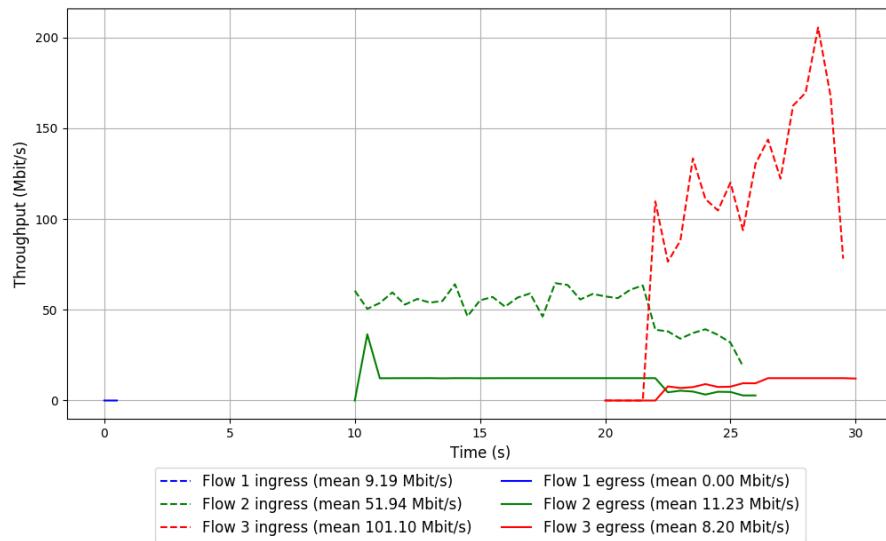


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-03 01:42:24
End at: 2019-01-03 01:42:54
Local clock offset: -0.35 ms
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 85.84%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 78.39%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 91.89%
```

Run 4: Report of TaoVA-100x — Data Link

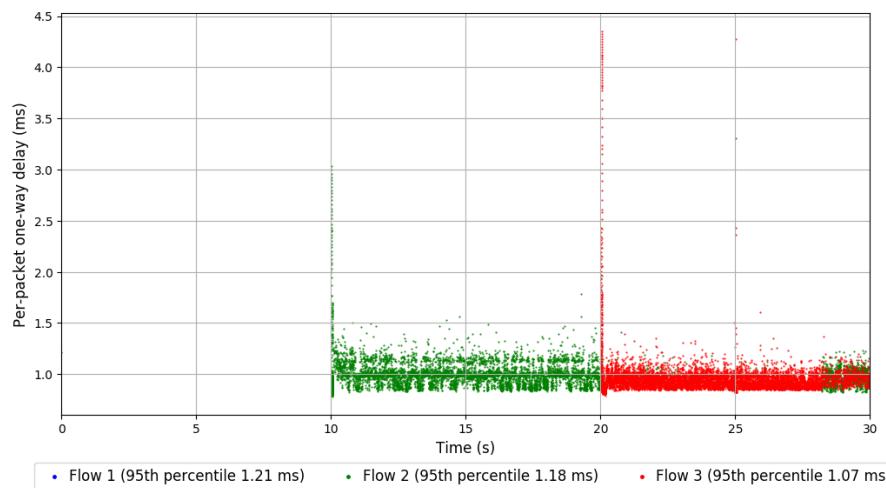
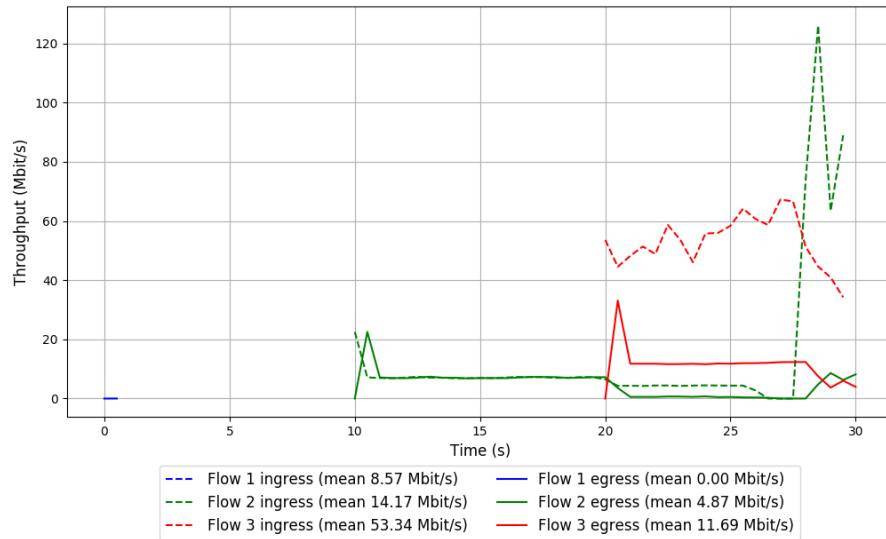


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-03 02:09:21
End at: 2019-01-03 02:09:52
Local clock offset: 0.024 ms
Remote clock offset: -0.675 ms

# Below is generated by plot.py at 2019-01-03 03:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 73.77%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 65.62%
-- Flow 3:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 78.11%
```

Run 5: Report of TaoVA-100x — Data Link

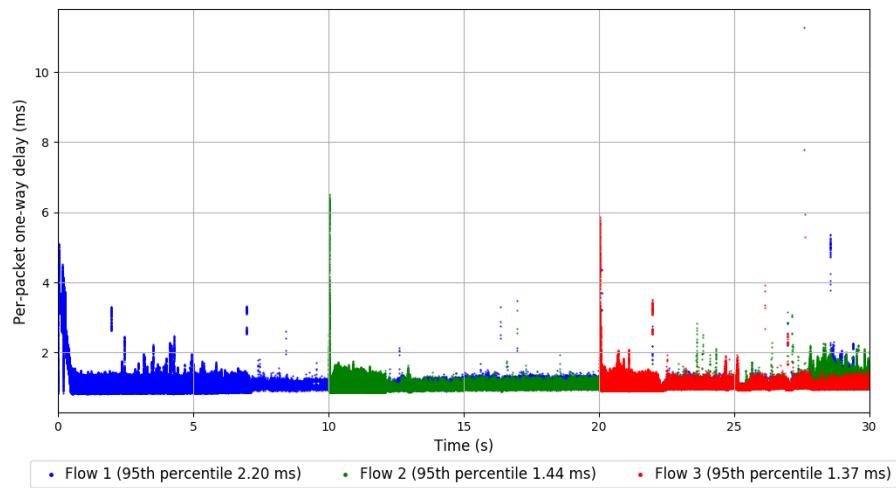
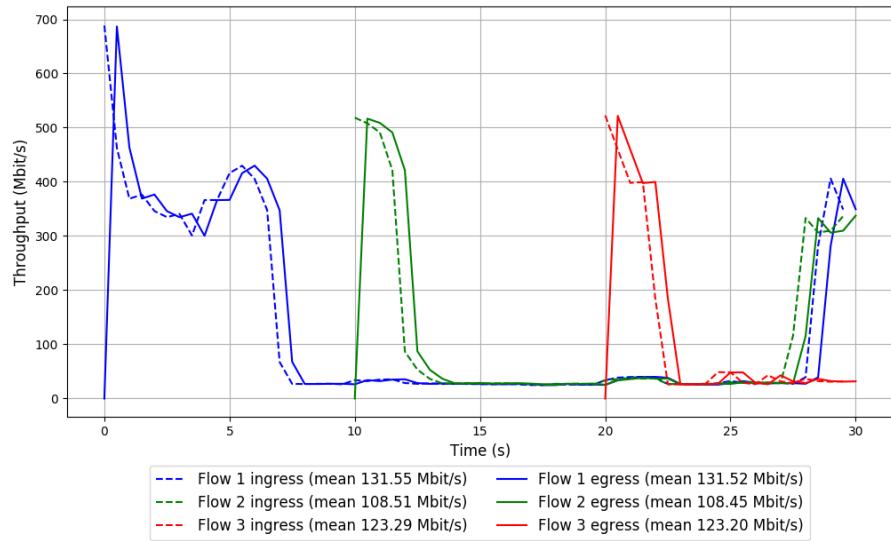


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-03 00:09:32
End at: 2019-01-03 00:10:02
Local clock offset: -0.188 ms
Remote clock offset: 1.557 ms

# Below is generated by plot.py at 2019-01-03 03:05:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.73 Mbit/s
95th percentile per-packet one-way delay: 1.544 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 131.52 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 108.45 Mbit/s
95th percentile per-packet one-way delay: 1.444 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 123.20 Mbit/s
95th percentile per-packet one-way delay: 1.374 ms
Loss rate: 0.07%
```

Run 1: Report of TCP Vegas — Data Link

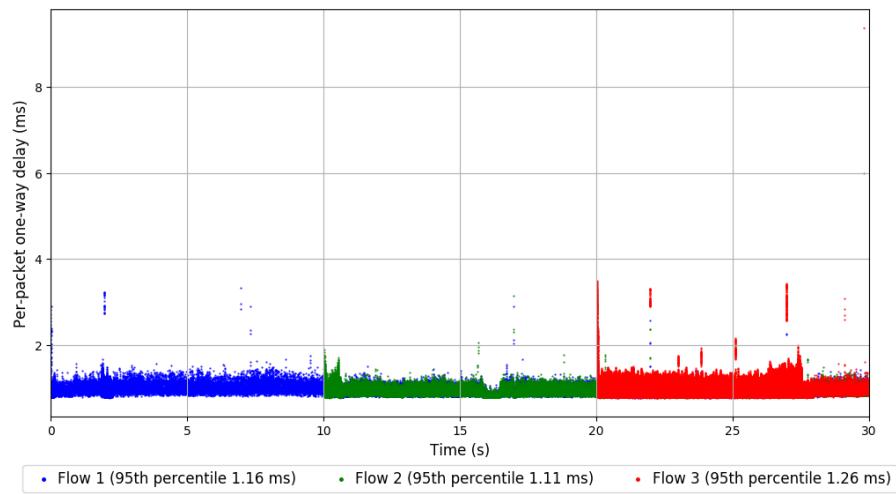
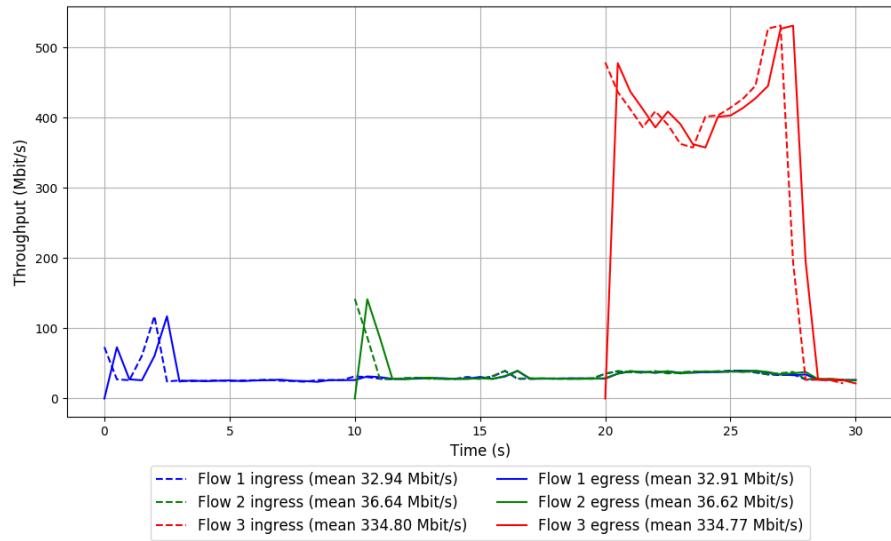


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-03 00:36:36
End at: 2019-01-03 00:37:06
Local clock offset: 0.36 ms
Remote clock offset: -0.386 ms

# Below is generated by plot.py at 2019-01-03 03:05:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.61 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 334.77 Mbit/s
95th percentile per-packet one-way delay: 1.258 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

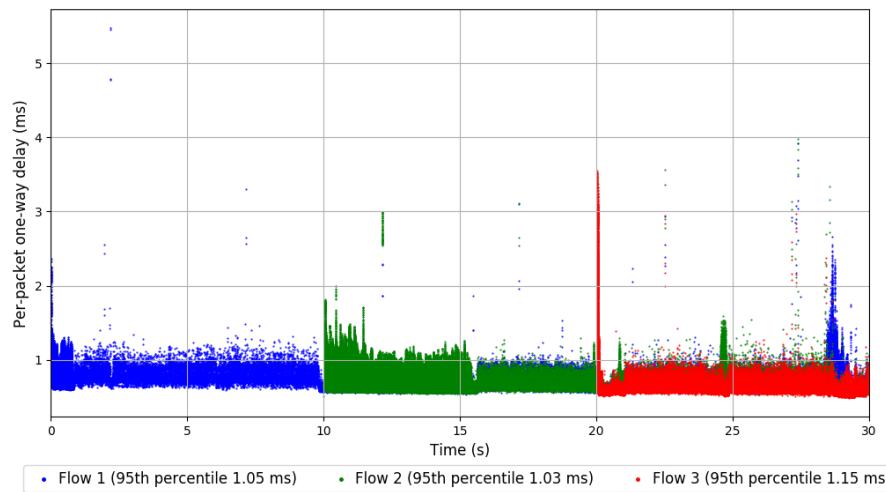
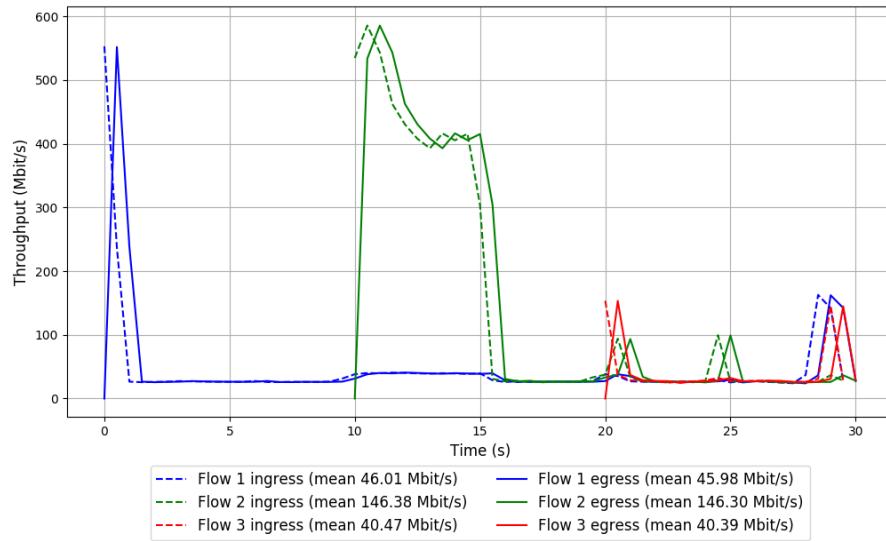


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-03 01:03:42
End at: 2019-01-03 01:04:12
Local clock offset: -1.937 ms
Remote clock offset: 3.508 ms

# Below is generated by plot.py at 2019-01-03 03:05:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 156.89 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 146.30 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.21%
```

Run 3: Report of TCP Vegas — Data Link

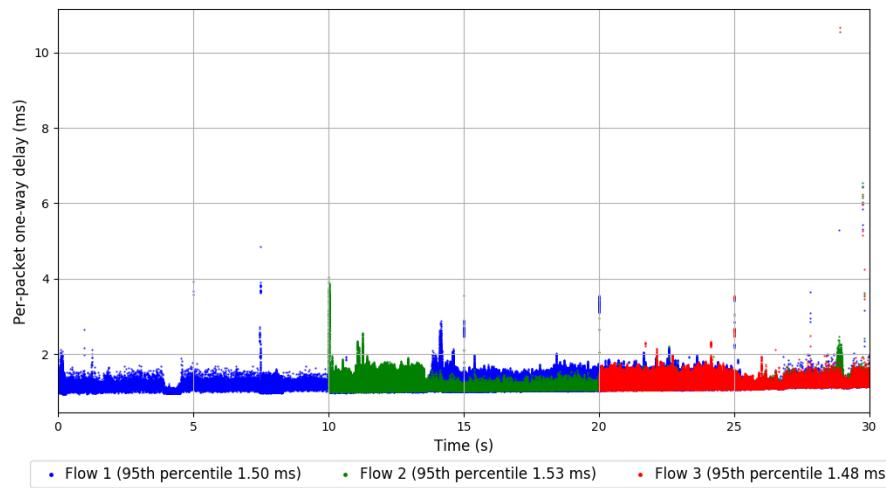
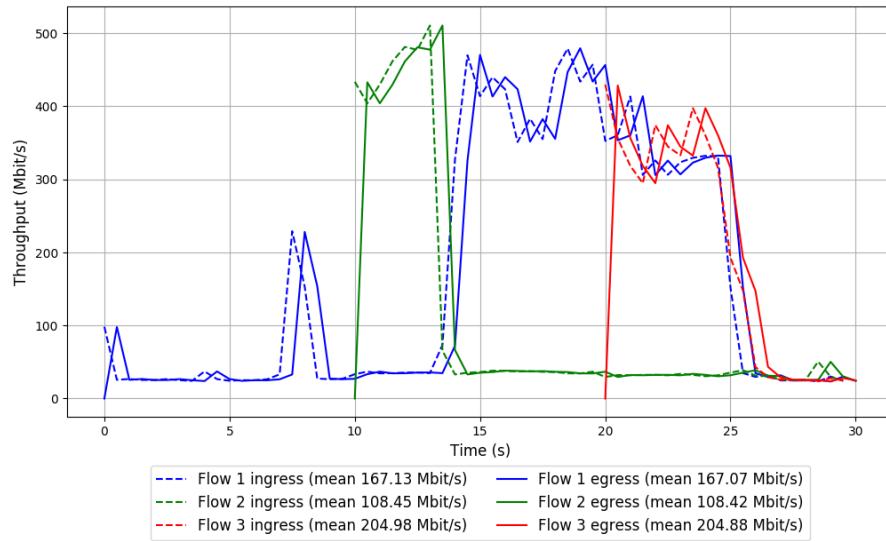


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-03 01:30:48
End at: 2019-01-03 01:31:18
Local clock offset: -1.561 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2019-01-03 03:07:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.51 Mbit/s
95th percentile per-packet one-way delay: 1.505 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 167.07 Mbit/s
95th percentile per-packet one-way delay: 1.500 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 108.42 Mbit/s
95th percentile per-packet one-way delay: 1.534 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 204.88 Mbit/s
95th percentile per-packet one-way delay: 1.482 ms
Loss rate: 0.05%
```

Run 4: Report of TCP Vegas — Data Link

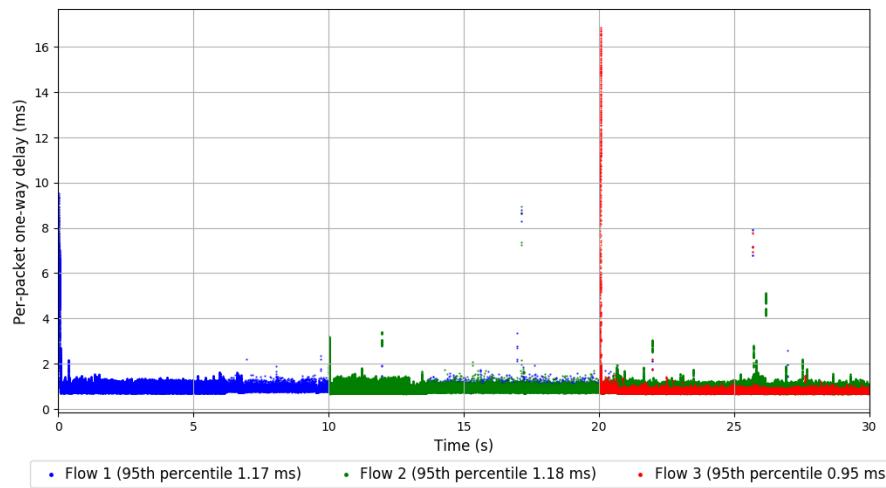
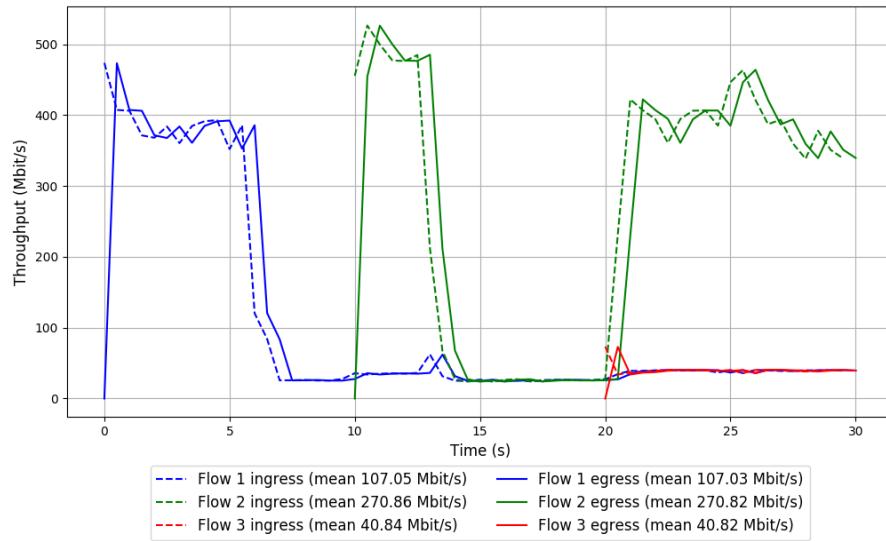


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-03 01:57:56
End at: 2019-01-03 01:58:26
Local clock offset: 0.057 ms
Remote clock offset: -0.782 ms

# Below is generated by plot.py at 2019-01-03 03:07:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.02 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 107.03 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 270.82 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 40.82 Mbit/s
95th percentile per-packet one-way delay: 0.955 ms
Loss rate: 0.05%
```

Run 5: Report of TCP Vegas — Data Link

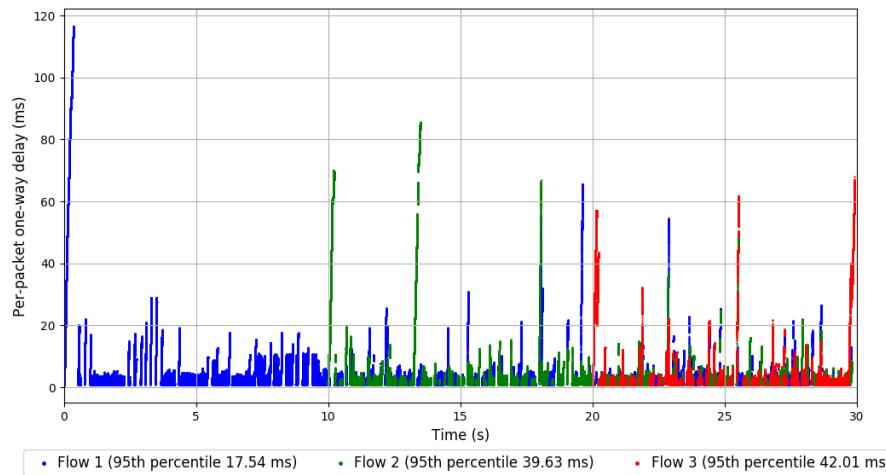
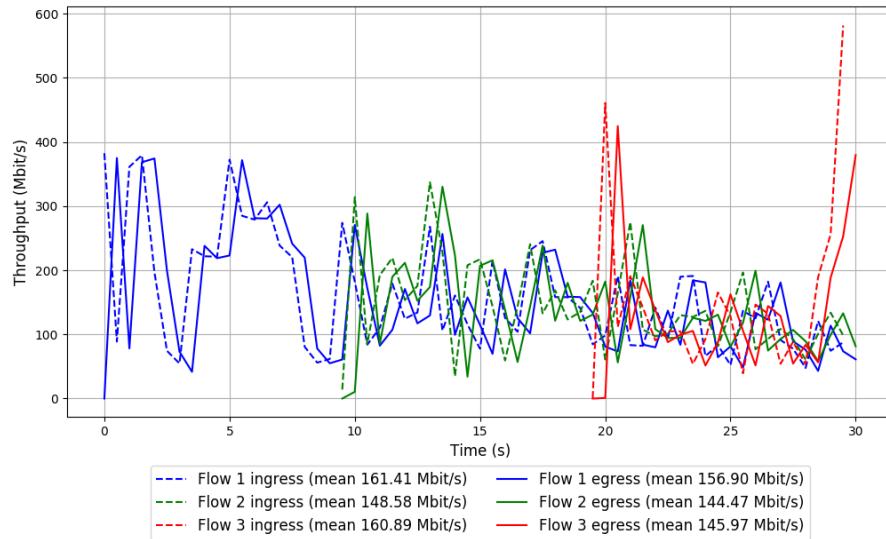


Run 1: Statistics of Verus

```
Start at: 2019-01-03 00:16:46
End at: 2019-01-03 00:17:16
Local clock offset: 0.299 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2019-01-03 03:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.31 Mbit/s
95th percentile per-packet one-way delay: 33.210 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 156.90 Mbit/s
95th percentile per-packet one-way delay: 17.536 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 144.47 Mbit/s
95th percentile per-packet one-way delay: 39.631 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 145.97 Mbit/s
95th percentile per-packet one-way delay: 42.008 ms
Loss rate: 9.01%
```

Run 1: Report of Verus — Data Link

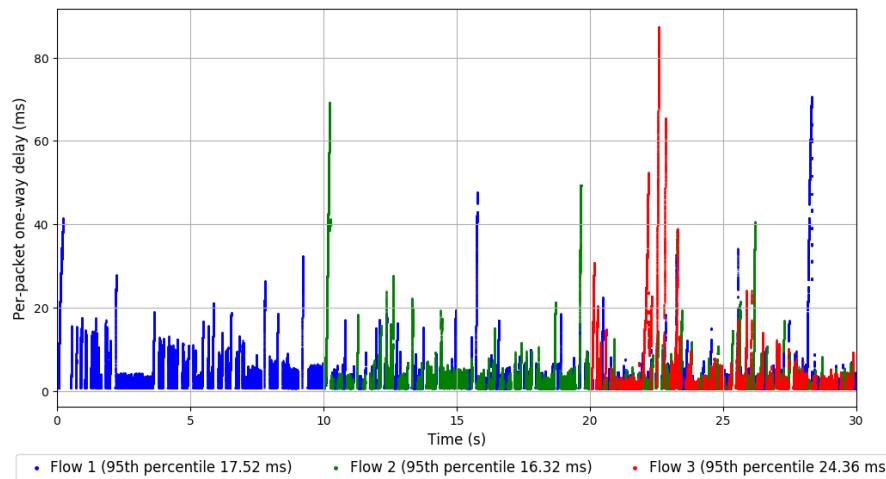
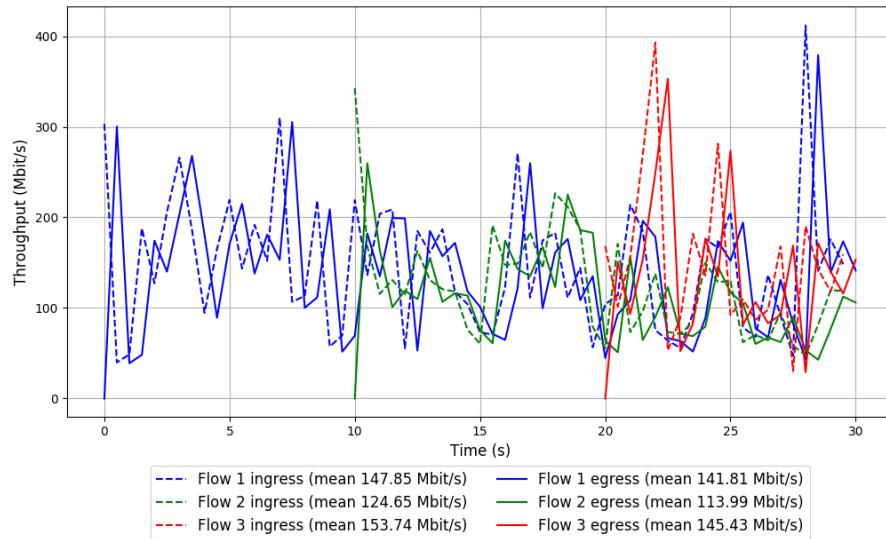


Run 2: Statistics of Verus

```
Start at: 2019-01-03 00:43:41
End at: 2019-01-03 00:44:11
Local clock offset: 0.368 ms
Remote clock offset: 1.245 ms

# Below is generated by plot.py at 2019-01-03 03:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.17 Mbit/s
95th percentile per-packet one-way delay: 18.630 ms
Loss rate: 5.62%
-- Flow 1:
Average throughput: 141.81 Mbit/s
95th percentile per-packet one-way delay: 17.515 ms
Loss rate: 4.08%
-- Flow 2:
Average throughput: 113.99 Mbit/s
95th percentile per-packet one-way delay: 16.325 ms
Loss rate: 8.54%
-- Flow 3:
Average throughput: 145.43 Mbit/s
95th percentile per-packet one-way delay: 24.362 ms
Loss rate: 5.34%
```

Run 2: Report of Verus — Data Link

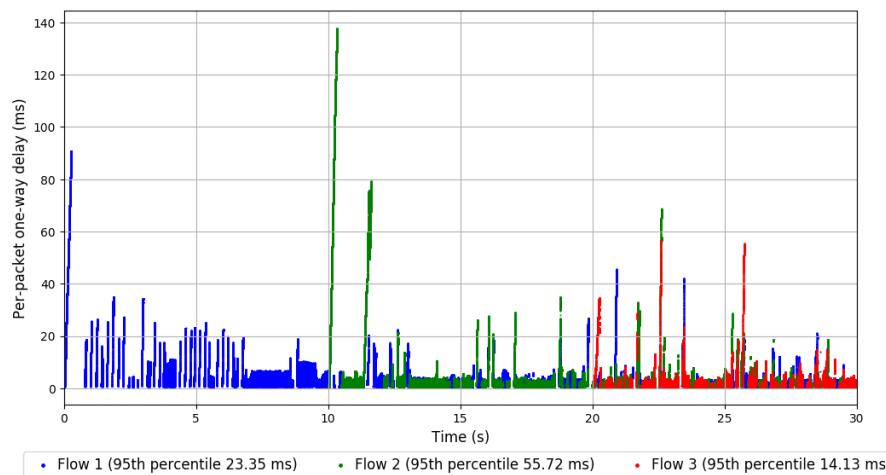
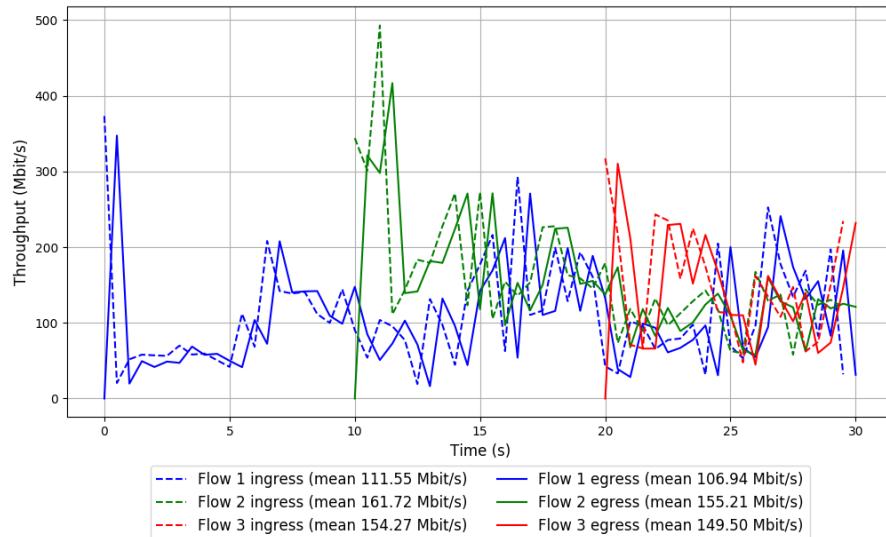


Run 3: Statistics of Verus

```
Start at: 2019-01-03 01:10:50
End at: 2019-01-03 01:11:20
Local clock offset: -2.799 ms
Remote clock offset: 3.912 ms

# Below is generated by plot.py at 2019-01-03 03:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.56 Mbit/s
95th percentile per-packet one-way delay: 29.846 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 106.94 Mbit/s
95th percentile per-packet one-way delay: 23.351 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 155.21 Mbit/s
95th percentile per-packet one-way delay: 55.720 ms
Loss rate: 4.02%
-- Flow 3:
Average throughput: 149.50 Mbit/s
95th percentile per-packet one-way delay: 14.130 ms
Loss rate: 3.09%
```

Run 3: Report of Verus — Data Link

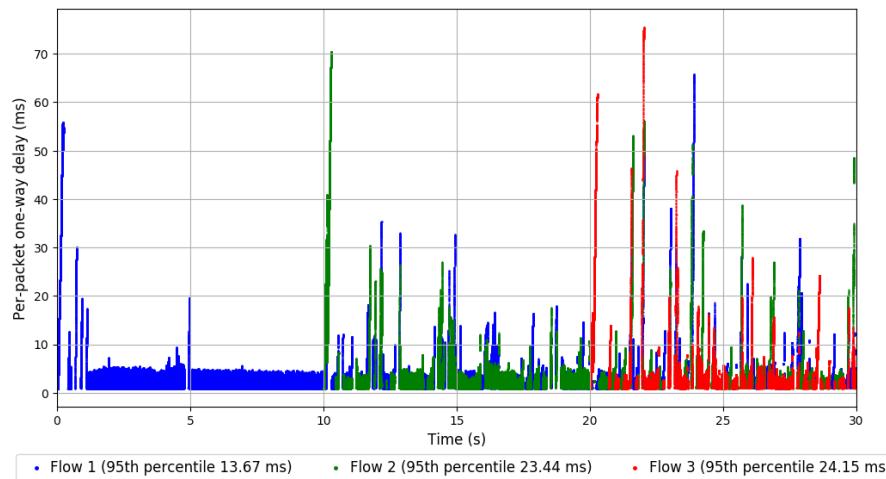
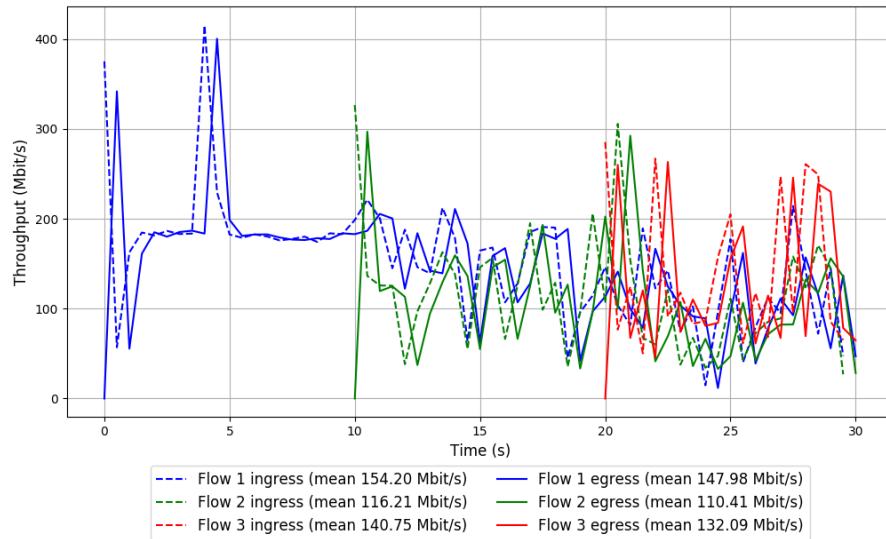


Run 4: Statistics of Verus

```
Start at: 2019-01-03 01:38:05
End at: 2019-01-03 01:38:35
Local clock offset: -0.604 ms
Remote clock offset: -1.138 ms

# Below is generated by plot.py at 2019-01-03 03:08:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.13 Mbit/s
95th percentile per-packet one-way delay: 19.086 ms
Loss rate: 4.58%
-- Flow 1:
Average throughput: 147.98 Mbit/s
95th percentile per-packet one-way delay: 13.673 ms
Loss rate: 4.02%
-- Flow 2:
Average throughput: 110.41 Mbit/s
95th percentile per-packet one-way delay: 23.440 ms
Loss rate: 4.76%
-- Flow 3:
Average throughput: 132.09 Mbit/s
95th percentile per-packet one-way delay: 24.149 ms
Loss rate: 6.12%
```

Run 4: Report of Verus — Data Link

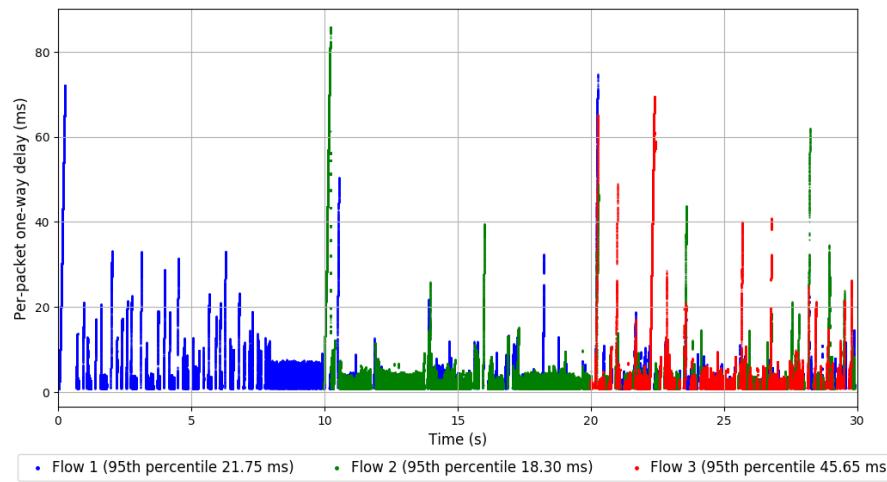
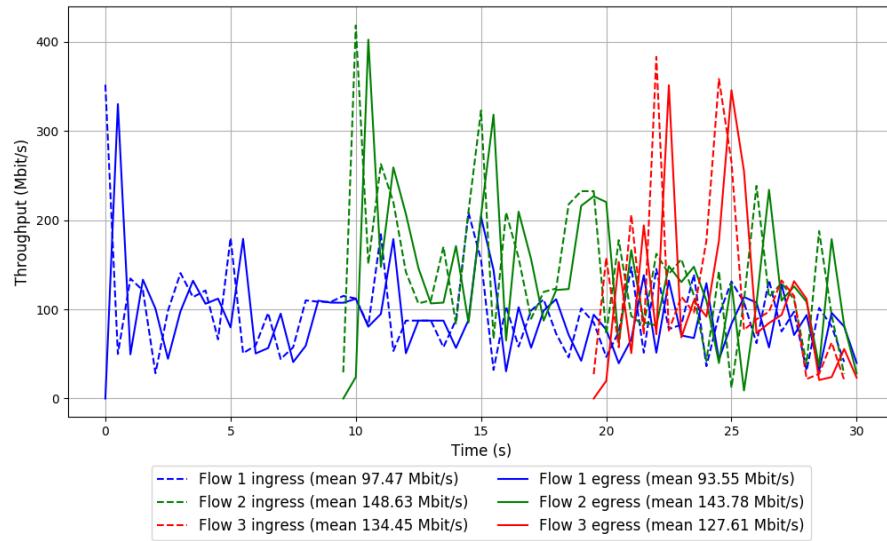


Run 5: Statistics of Verus

```
Start at: 2019-01-03 02:05:06
End at: 2019-01-03 02:05:36
Local clock offset: 0.039 ms
Remote clock offset: -0.639 ms

# Below is generated by plot.py at 2019-01-03 03:08:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.32 Mbit/s
95th percentile per-packet one-way delay: 24.990 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 21.746 ms
Loss rate: 4.03%
-- Flow 2:
Average throughput: 143.78 Mbit/s
95th percentile per-packet one-way delay: 18.304 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 127.61 Mbit/s
95th percentile per-packet one-way delay: 45.651 ms
Loss rate: 4.85%
```

Run 5: Report of Verus — Data Link

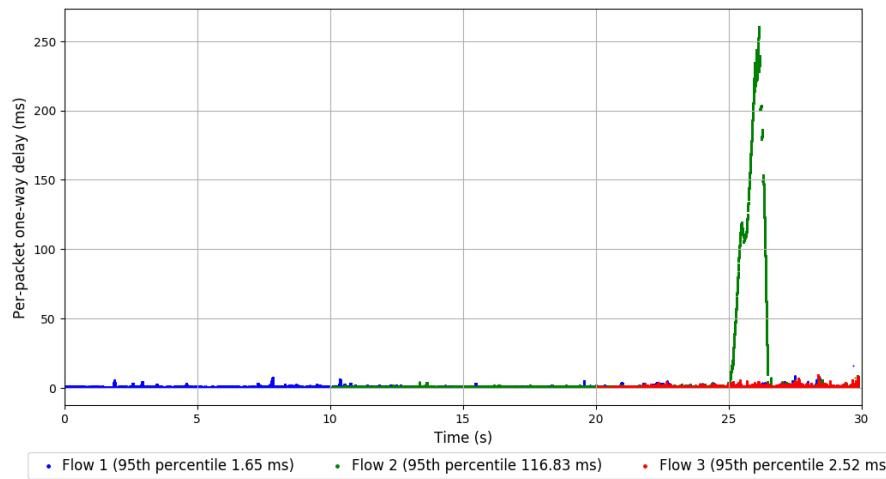
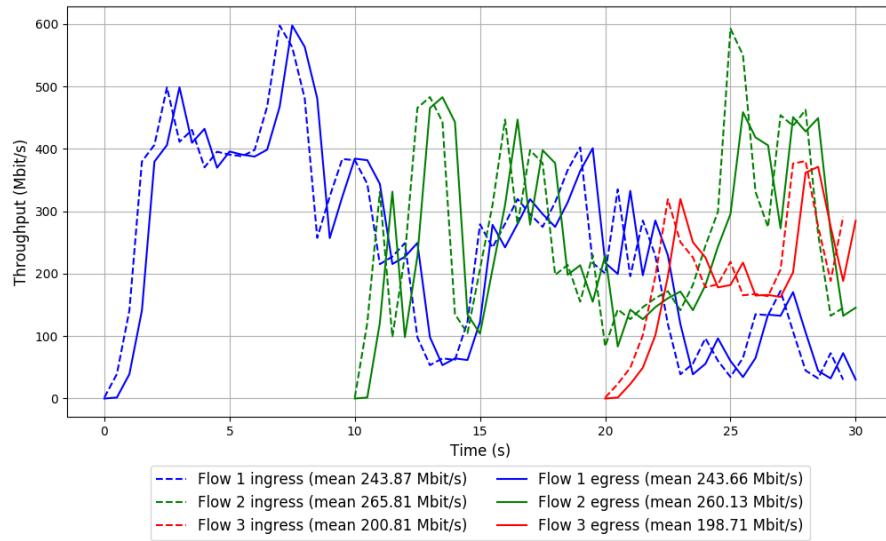


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-01-03 00:13:33
End at: 2019-01-03 00:14:03
Local clock offset: 0.106 ms
Remote clock offset: 0.792 ms

# Below is generated by plot.py at 2019-01-03 03:10:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 482.29 Mbit/s
95th percentile per-packet one-way delay: 4.335 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 243.66 Mbit/s
95th percentile per-packet one-way delay: 1.648 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 260.13 Mbit/s
95th percentile per-packet one-way delay: 116.830 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 198.71 Mbit/s
95th percentile per-packet one-way delay: 2.520 ms
Loss rate: 1.05%
```

Run 1: Report of PCC-Vivace — Data Link

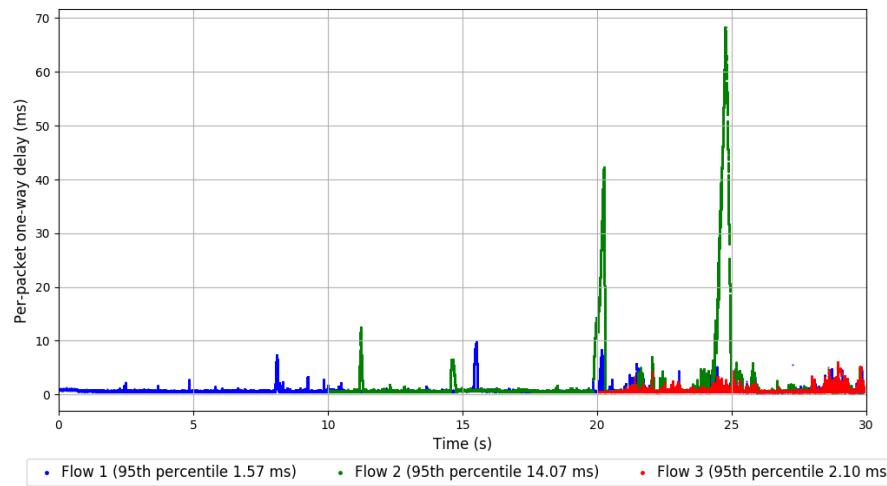
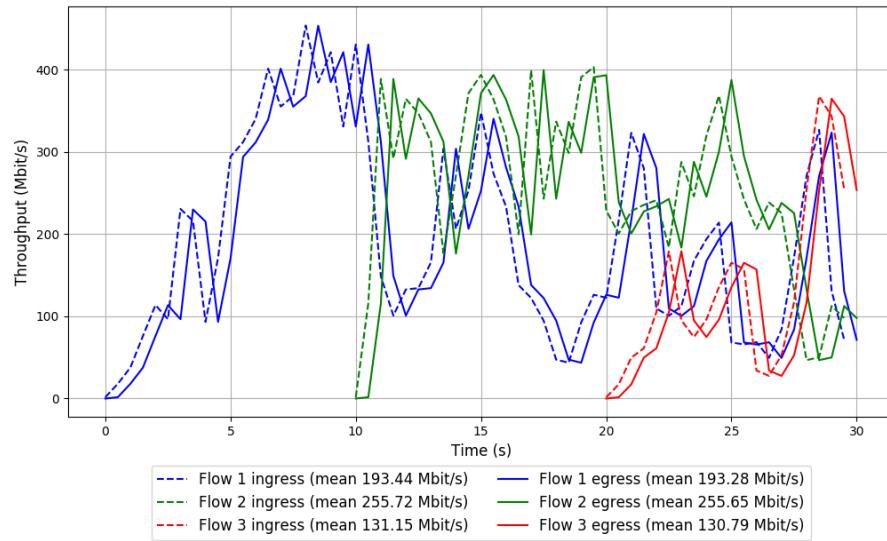


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-03 00:40:32
End at: 2019-01-03 00:41:02
Local clock offset: 0.359 ms
Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2019-01-03 03:10:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.46 Mbit/s
95th percentile per-packet one-way delay: 4.271 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 193.28 Mbit/s
95th percentile per-packet one-way delay: 1.566 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 255.65 Mbit/s
95th percentile per-packet one-way delay: 14.074 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 130.79 Mbit/s
95th percentile per-packet one-way delay: 2.099 ms
Loss rate: 0.28%
```

Run 2: Report of PCC-Vivace — Data Link

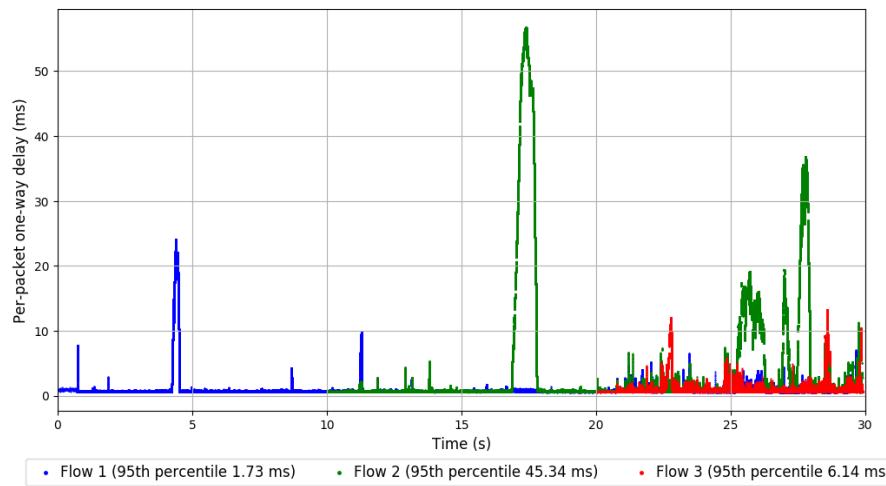
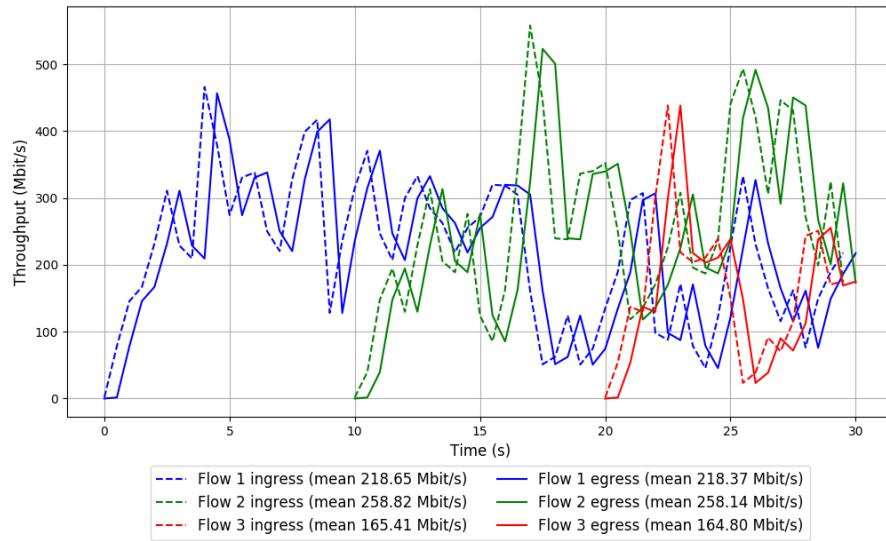


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-03 01:07:38
End at: 2019-01-03 01:08:08
Local clock offset: -2.452 ms
Remote clock offset: 3.722 ms

# Below is generated by plot.py at 2019-01-03 03:10:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 444.45 Mbit/s
95th percentile per-packet one-way delay: 17.389 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 218.37 Mbit/s
95th percentile per-packet one-way delay: 1.729 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 258.14 Mbit/s
95th percentile per-packet one-way delay: 45.337 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 164.80 Mbit/s
95th percentile per-packet one-way delay: 6.140 ms
Loss rate: 0.37%
```

Run 3: Report of PCC-Vivace — Data Link

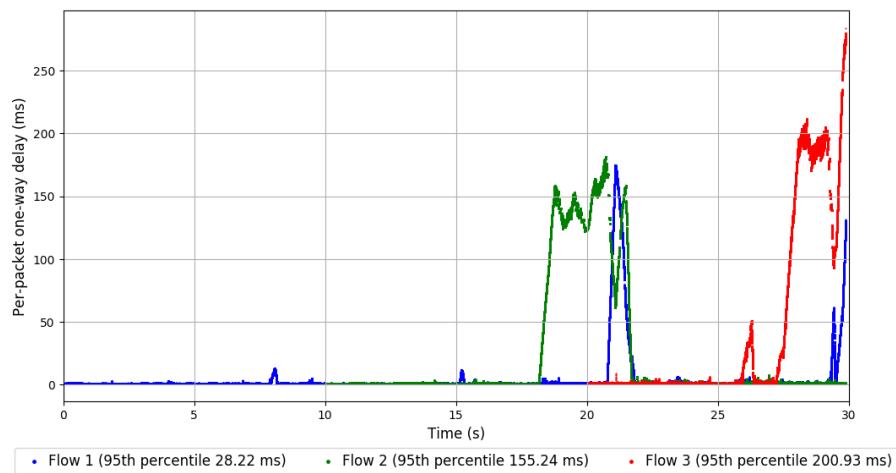
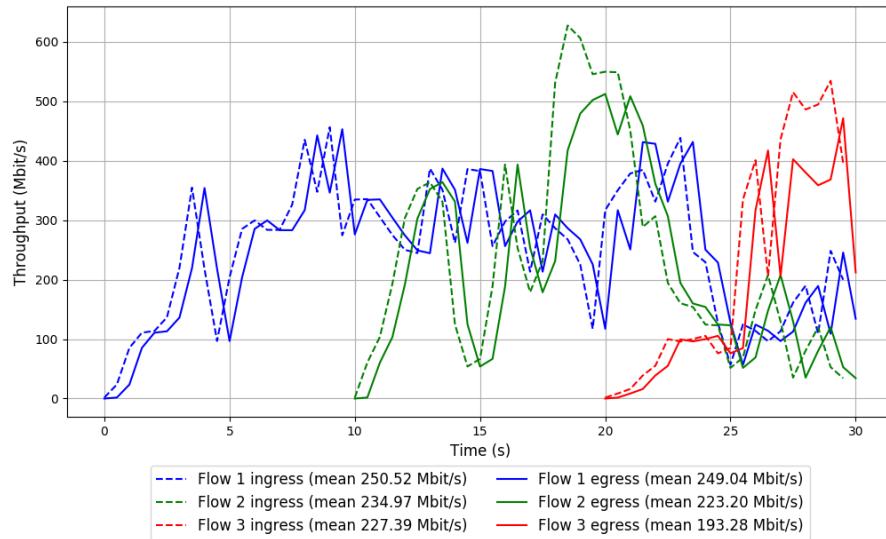


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-03 01:34:53
End at: 2019-01-03 01:35:23
Local clock offset: -0.87 ms
Remote clock offset: -0.989 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.28 Mbit/s
95th percentile per-packet one-way delay: 162.088 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 249.04 Mbit/s
95th percentile per-packet one-way delay: 28.217 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 223.20 Mbit/s
95th percentile per-packet one-way delay: 155.242 ms
Loss rate: 5.01%
-- Flow 3:
Average throughput: 193.28 Mbit/s
95th percentile per-packet one-way delay: 200.930 ms
Loss rate: 14.97%
```

Run 4: Report of PCC-Vivace — Data Link

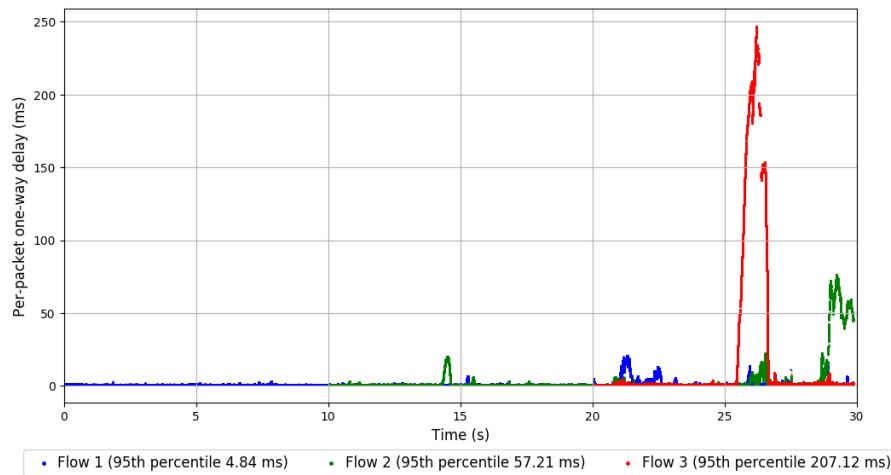
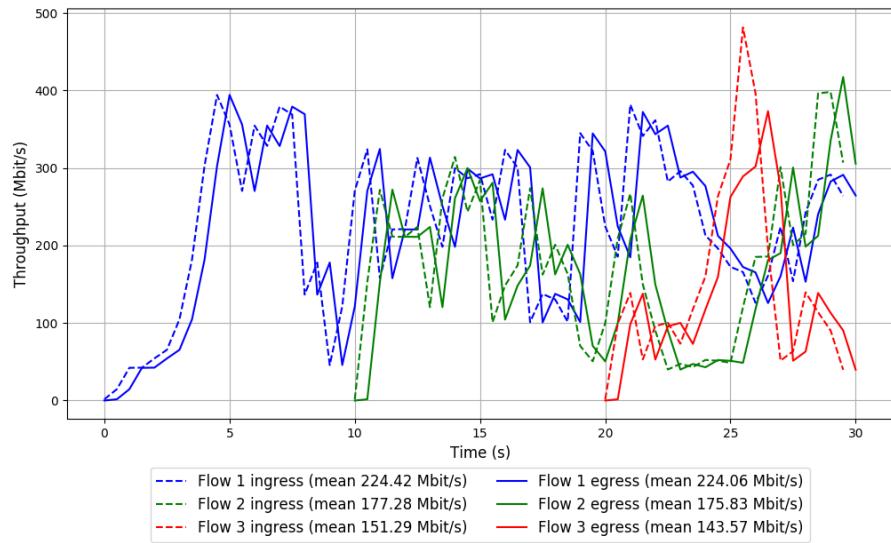


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-03 02:01:57
End at: 2019-01-03 02:02:27
Local clock offset: 0.054 ms
Remote clock offset: -0.654 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.41 Mbit/s
95th percentile per-packet one-way delay: 54.528 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 224.06 Mbit/s
95th percentile per-packet one-way delay: 4.840 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 175.83 Mbit/s
95th percentile per-packet one-way delay: 57.207 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 143.57 Mbit/s
95th percentile per-packet one-way delay: 207.125 ms
Loss rate: 5.10%
```

Run 5: Report of PCC-Vivace — Data Link

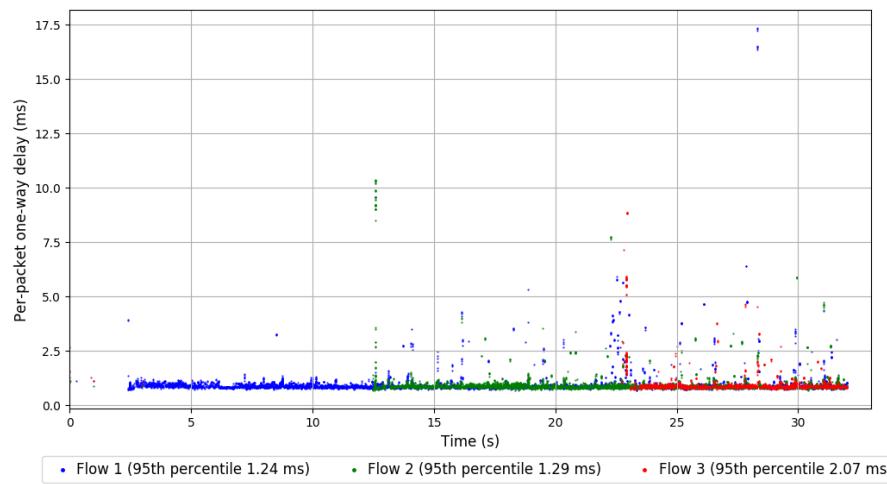
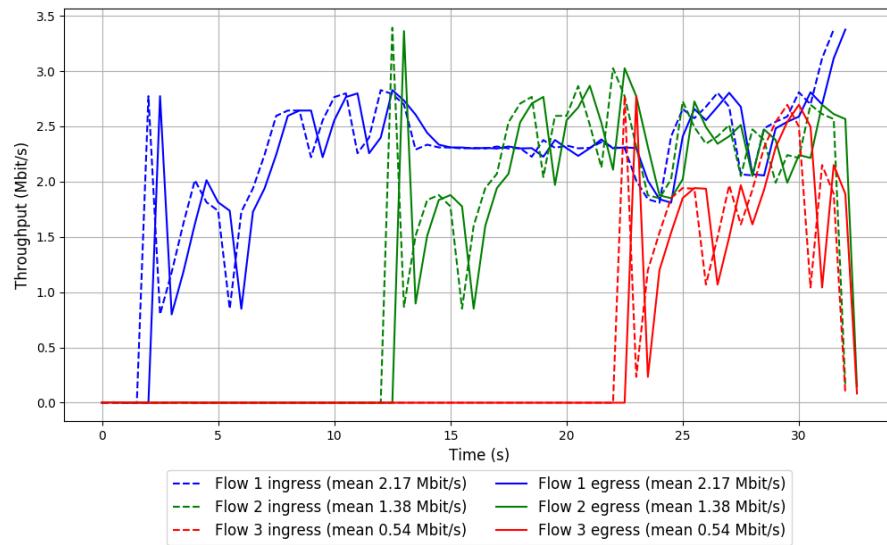


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-01-03 00:30:18
End at: 2019-01-03 00:30:48
Local clock offset: 0.437 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 1.286 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 2.072 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

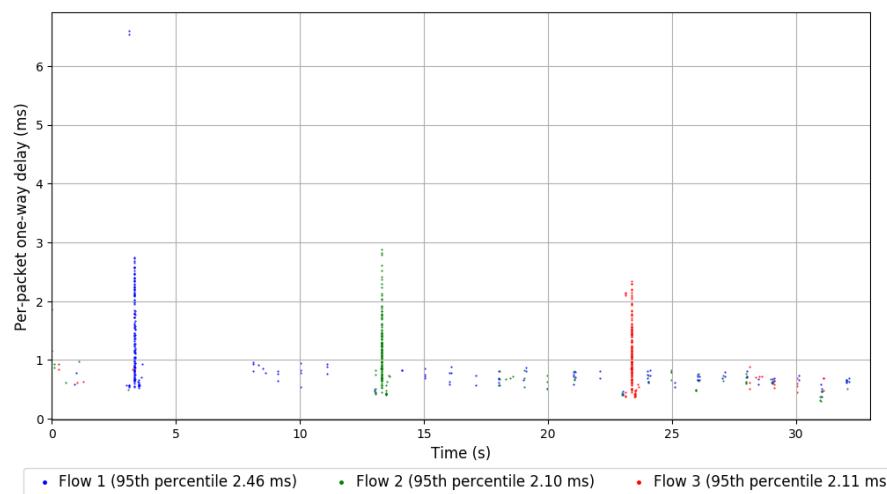
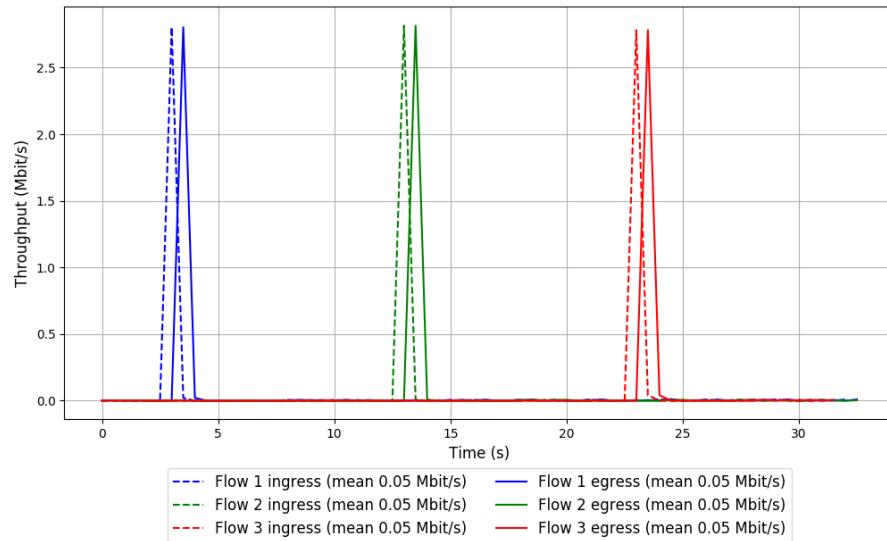


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-03 00:57:25
End at: 2019-01-03 00:57:55
Local clock offset: -0.577 ms
Remote clock offset: 3.096 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 2.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.456 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.107 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

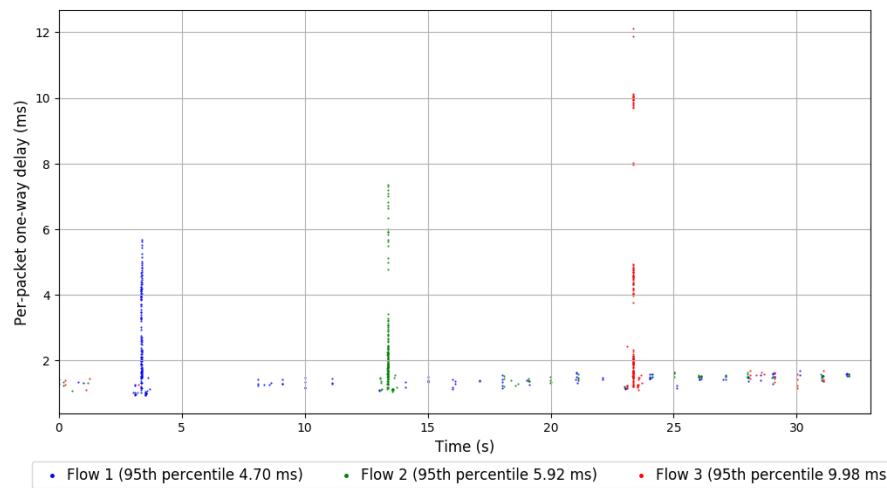
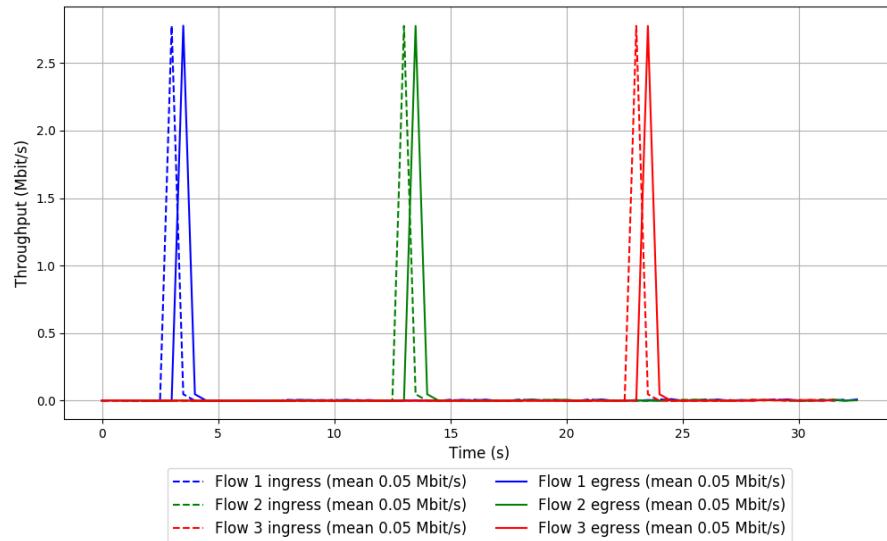


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-03 01:24:30
End at: 2019-01-03 01:25:00
Local clock offset: -3.602 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 6.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.704 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.978 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

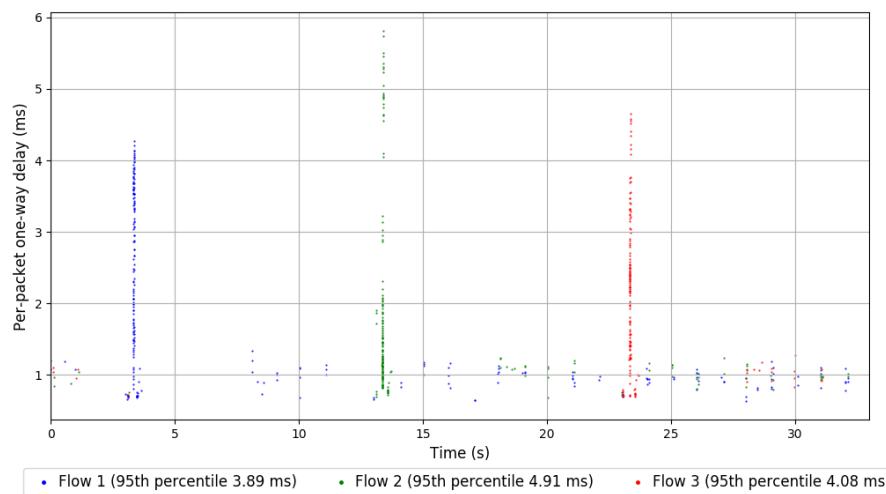
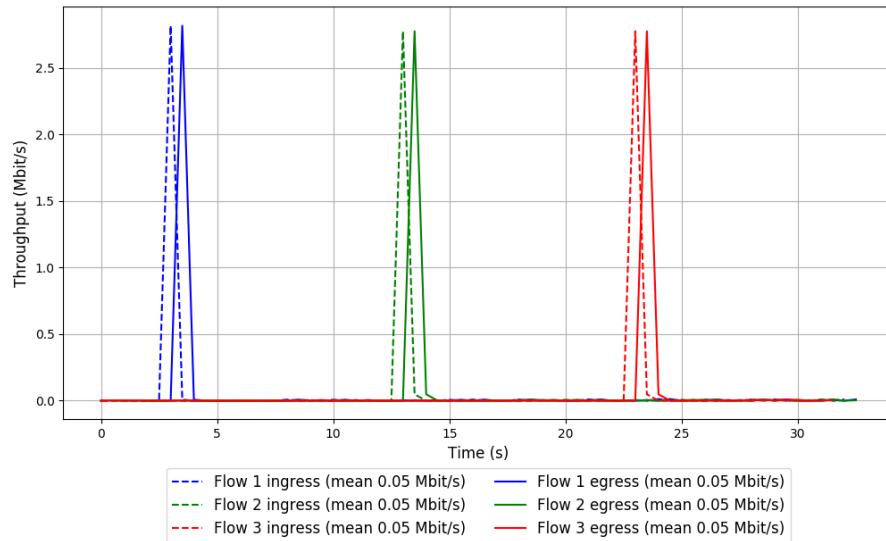


```
Run 4: Statistics of WebRTC media

Start at: 2019-01-03 01:51:38
End at: 2019-01-03 01:52:08
Local clock offset: -0.003 ms
Remote clock offset: -1.119 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.893 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.910 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.081 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-03 02:18:38
End at: 2019-01-03 02:19:08
Local clock offset: 0.041 ms
Remote clock offset: -0.831 ms

# Below is generated by plot.py at 2019-01-03 03:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 5.111 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 6.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.618 ms
Loss rate: 1.65%
```

Run 5: Report of WebRTC media — Data Link

